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1970 GENERAL CATALOG

EASTERN ILLINOIS UNIVERSITY
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UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN



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All college degree is given and minors meet these requirements. At the student's degree this reason requires requirements his college

Also, it is a broad policy they may be and know changes are the Official board near responsible

The candidates and state policies be of help

met before a courses, majors help a student for fulfilling whether or not not been met, been met. For himself with the them during

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prospective students, Charleston, but to each form as will

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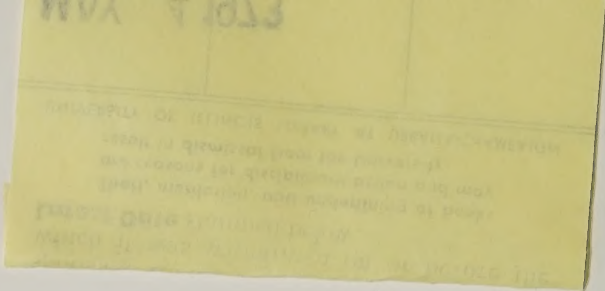
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Eastern Illinois
University Catalog

APRIL, 1970



71st YEAR
ACADEMIC RECORD 1969-70 SESSIONS
ANNOUNCEMENTS
for
SUMMER 1970
and
1970-71 SESSIONS



THE STUDENT'S RESPONSIBILITY

All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisors and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the University decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the Eastern News and posted on the official bulletin board near the Office of the Dean of Student Academic Services. Students are responsible for knowing these changes.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through school.

Eastern Illinois
University Catalog

APRIL, 1970



71st YEAR
ACADEMIC RECORD 1969-70 SESSIONS
ANNOUNCEMENTS
for
SUMMER 1970
and
1970-71 SESSIONS

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This catalog includes information concerning admission, registration, fees, housing, course offerings, etc., as it pertains to the summer sessions of 1970.

Undergraduate Quarter, June 8 to August 17

Graduate Term, June 22 to August 17

NOTICE

As necessary, supplements containing important changes in this catalog will be issued. When issued, such supplements will be distributed during the first two weeks of each quarter.

WORKSHOPS, CONFERENCES AND SPECIAL EVENTS

Summer, 1970



SUMMER WORKSHOPS

June 1-June 19	.....	Special Problems in Guidance, Education	549
June 1-June 19	.....	Preparation and Use of Instructional Materials, Edu.	488
June 8-June 19	.....	Rock-Pop Music, Music	545
June 8-June 19	.....	Vocational Guidance Seminar, Education	549
June 8-June 22	.....	Junior High School Workshop, Education	549
June 8-June 26	.....	Education in the Inner City School, Education	475
June 8-June 26	.....	Outing Crafts, PEW	356
June 14-June 21	.....	Piano Conference, Music	480
June 22-June 26	.....	Instrumental Conducting, Music	480
June 23-July 17	.....	Disadvantaged Family, Home Ec.	542
June 23-July 17	.....	Occupational Cooperative Education, Bus. Ed. 505 or Education 505 or Health Ed. 505 or Home Ec. 505 or Ind. Arts 505	
June 29-July 3	.....	Singing in Style, Music	480
June 29-July 17	.....	P.E. in Elem. & Jr. High School, PEW	514
June 29-July 17	.....	Alcohol, Narcotics, Halucinogenic Drugs, Health Ed.	480
July 20-August 7	.....	Recreation Workshop, PEM	592
July 20-August 17	.....	Consumer Education, Home Ec.	542
July 20-August 17	.....	Administration and Supervision of Occupational Education, Bus. Ed. 506 or Education 506 or Health Ed. 506 or Home Ec. 506 or Ind. Arts 506	
July 26-August 1	.....	High School Publications	

SUMMER INSTITUTES

June 23-August 15	.....	NSF High School Physics Teachers	
June 23-August 15	.....	National Science Foundation	

SUMMER ABROAD

June 22-August 24	.....	Ireland (Dublin)	
July 12-August 20	.....	(foreign language).....	Mexico (Monterrey)
June 8-August 20	.....	(tropical botany)	Mexico (Monterrey)

Information concerning the foregoing, to include enrollment, fees and accommodations may be obtained by writing to the Director of Extension.

UNIVERSITY CALENDAR

1970-71

SUMMER QUARTER, 1970

Monday, June 8Registration
Tuesday, June 9Classes Begin
Monday, June 22Graduate Registration
Tuesday, June 23Graduate Classes Begin
Wednesday, July 1Last Day to Apply for Summer Quarter Graduation
Tuesday, July 14Constitution Examination
Thursday, August 13Commencement
Tuesday, Wednesday, Thursday, Friday, August 11, 12, 13, 14 ... Examinations
Monday, August 17Quarter Closes

FALL QUARTER, 1970

Saturday, September 5Graduate Registration
Monday, September 7Registration and Parents Convocation
Tuesday, September 8Registration
Tuesday, September 8Last Day to Apply for Fall Quarter Graduation
Wednesday, September 9Classes Begin
Friday, October 9Constitution Examination
Friday, October 16Last Date for Application for Certification
Saturday, November 14Graduate Registration for Winter Quarter
Wednesday, November 18Study Day
Thursday, Friday, Monday, Tuesday, November 19-24Examinations
Saturday, November 21Commencement
Wednesday, November 25Quarter Closes

WINTER QUARTER, 1970-71

Wednesday, December 2Registration
Wednesday, December 2....Last Day to Apply for Winter Quarter Graduation
Thursday, December 3Classes Begin
Friday, December 18 (7:00 p.m.)Christmas Vacation Begins
Monday, January 4 (8:00 a.m.)Classes Resume
Friday, January 22Constitution Examination
Friday, January 29Last Date for Application for Certification
Saturday, February 20Graduate Registration for Spring Quarter
Thursday, February 25Study Day
Friday, Monday, Tuesday, Wednesday, February 26-March 1-3 .Examinations
Saturday, February 27Commencement
Thursday, March 4Quarter Closes

SPRING QUARTER, 1971

Wednesday, March 10Registration
Wednesday, March 10 ... Last Day to Apply for Spring Quarter Graduation
Thursday, March 11Classes Begin
Friday, April 9Good Friday Vacation
Friday, April 16Constitution Examination
Friday, April 23Last Date for Application for Certification
Saturday, May 22Early Graduate Registration for Summer Quarter
Monday, Tuesday, Wednesday, Thursday, May 24-27Examinations
Sunday, May 23Commencement
Friday, May 28Quarter Closes

SUMMER QUARTER, 1971

Monday, June 7Undergraduate Registration
Tuesday, June 8Undergraduate Classes Begin
Monday, June 21Graduate Registration
Tuesday, June 22Graduate Classes Begin
Thursday, July 1Last Day to Apply for Summer Quarter Graduation
Friday, July 9Constitution Examination
Friday, July 16Last Date for Application for Certification
Tuesday, Wednesday, Thursday, Friday, August 10-13Examinations
Thursday, August 12Commencement
Monday, August 16Quarter Closes

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES



APPOINTED MEMBERS

ROYAL A. STIPES, JR., Champaign	1965-71
MARION LAMET, Warsaw	1967-71
MURRAY H. FINLEY, Skokie	1968-71
WILLIAM W. ALLEN, Normal	1967-73
CHARLES A. DAVIS, Chicago	1967-73
WILLIAM E. McBRIDE, ¹ Chicago	1967-73
E. LELAND WEBBER, Wilmette	1967-75
HOWARD V. PHALIN, Winnetka	1969-75
LOUIS SCHUETTE, Rockford	1969-75



EX OFFICIO MEMBER

CECIL M. SHAW

Assistant Superintendent of Public Instruction, Springfield



OFFICERS

ROYAL A. STIPES, JR., *Chairman*

FREDERICK H. McKELVEY, *Executive Officer, Springfield*

¹ Resigned, February 1970.

EMERITUS FACULTY

Robert G. Buzzard, Ph.D.	President	Emeritus
Hobart F. Heller, Ph.D.	Vice President for Instruction	Emeritus
Donald R. Alter, Ph.D.	Professor	Emeritus
Robert L. Blair, Ph.D.	Professor	Emeritus
Harold M. Cavins, Ed.D.	Professor	Emeritus
Ruth H. Cline, Ph.D.	Professor	Emeritus
Charles H. Coleman, Ph.D.	Professor	Emeritus
Earl S. Dickerson, Ed. D.	Professor	Emeritus
Arthur U. Edwards, Ph.D.	Professor	Emeritus
Kevin Guinagh, Ph.D.	Professor	Emeritus
Edith C. Haight, Ph.D.	Professor	Emeritus
Bryan Heise, Ph.D.	Professor	Emeritus
E. Chenault Kelly, D.Ed.	Professor	Emeritus
Russell H. Landis, D.Ed.	Professor	Emeritus
Elizabeth K. Lawson, Ph.D.	Professor	Emeritus
Lawson F. Marcy, Ph.D.	Professor	Emeritus
Sadie O. Morris, Ph.D.	Professor	Emeritus
Harris E. Phipps, Ph.D.	Professor	Emeritus
Emma Reinhardt, Ph.D.	Professor	Emeritus
J. Glenn Ross, Ph.D.	Professor	Emeritus
Donald A. Rothschild, Ph.D.	Professor	Emeritus
Roscoe F. Schaupp, Ph.D.	Professor	Emeritus
Ruth Schmalhausen, Ed.D.	Professor	Emeritus
Glenn H. Seymour, Ph.D.	Professor	Emeritus
Hiram F. Thut, Ph.D.	Professor	Emeritus
Myrtle Arnold, A.M.	Assistant Professor	Emeritus
Winifred H. Bally, M.A.	Assistant Professor	Emeritus
Ruth Carman, M.A.	Assistant Professor	Emeritus
Gilbert T. Carson, A.M.	Assistant Professor	Emeritus
Leah Stevens Castle, S.M.	Assistant Professor	Emeritus
Margaret L. Ekstrand, A.M.L.S.	Assistant Professor	Emeritus
Lena B. Ellington, A.M.	Assistant Professor	Emeritus
Harriet Love Hershey, M.S.	Assistant Professor	Emeritus
Ruth Hostetler, A.M.	Assistant Professor	Emeritus
Jessie M. Hunter, M.A.	Assistant Professor	Emeritus
Ica Marks, M.S.	Assistant Professor	Emeritus
Roberta L. Poos, A.M.	Assistant Professor	Emeritus
Florence E. Reid, M.A.	Assistant Professor	Emeritus
Nannilee Saunders, M.A.	Assistant Professor	Emeritus
Lee Anna J. Smock, M.A.	Assistant Professor	Emeritus
Ethel Hanson Stover, A.M.	Assistant Professor	Emeritus
Lottie Leeds, M.S.Ed.	Instructor	Emeritus
Raymond R. Gregg, A.M.	Director of Business Services	Emeritus



DISABILITY LEAVE

David J. Davis, Ph.D.	Professor
William H. Groves	Professor
Robert B. Thrall, M.S.	Assistant Professor

Eastern Illinois University Charleston



FACULTY, 1969-70



ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

Quincy DoudnaPresident (1956¹)
Ph.D., University of Wisconsin; LL.D., Carroll College

OFFICERS OF INSTRUCTION

Peter R. MoodyVice President for Instruction (1967)
Ph.D., Cambridge University
Lawrence A. RingenbergDean of the College of Letters
Ph.D., The Ohio State University and Science (1947)
Lawrence R. NicholsChairman, Division of Latin-American Studies
Ph.D., Duke University (1966)
William M. CloudChairman, Division of Pre-Engineering
Ph.D., University of Wisconsin Studies (1962)
Robert J. SmithChairman, Division of Pre-Medical Studies (1955)
Ph.D., The University of Iowa
Raymond A. PlathChairman, Division of Social Sciences (1946)
Ph.D., University of Wisconsin
Leonard DurhamDirector, Division of Life Sciences (1955)
Ph.D., University of Illinois
Harry J. MerigisDean, Faculty of Education (1954)
Ed.D., University of Oklahoma
George W. SchlinsogAssistant to Dean, Faculty of
D.Ed., University of Oregon Education (1967)
Robert ZabkaDirector of Student Teaching (1964)
Ph.D., Northwestern University
Donald G. GillPrincipal of the Laboratory School (1960)
D. Ed., University of Illinois
Lavern M. Hamand²Dean of the Graduate School (1957)
Ph.D., University of Illinois
James F. GiffinDean of the School of Business (1947)
Ph.D., Northwestern University
Walter S. LowellDean of the School of Health, Physical
Ed.D., Michigan State University Education and Recreation (1961)
Tom KatsimpalisDirector of Athletics (1959)
Ed.D., Colorado State College
Mary Ruth SwopeDean of the School of Home Economics (1962)
Ed.D., Columbia University
Walter A. KlehmDean of the School of Industrial Arts
Ed.D., University of Missouri and Technology (1938)

¹ Date of joining staff in parenthesis

² On sabbatical leave, summer 1970.

- Robert Y. HareDean of the School of Music (1965)
 Ph.D., The University of Iowa
 Fred J. BouknightAssistant to the Director of the School
 Ed.D., Teachers College, Columbia University of Music (1959)
 B. Joseph SzerenyiDirector of Library Services (1967)
 D.Pol.S., Elizabeth University, Hungary
 Verne A. StockmanDirector of Audio-Visual Center (1955)
 Ed.D., Michigan State University
 Frederick L. KennerlyAssistant, Audio-Visual Center (1969)
 M.Ed., University of Nebraska
 Floyd A. LandsawAssistant, Audio-Visual Center (1965)
 Ed.D., Indiana University

OFFICERS OF ADMINISTRATION

- William H. ZeigelVice President for Administration (1937)
 Ph.D., University of Missouri
 Rudolph D. AnfinsonDean of Student Personnel Services (1940)
 Ph.D., University of Minnesota
 James D. CoreyAssociate Dean, Student Personnel Services (1964)
 Ed.D., Colorado State College
 Mary P. RogersAssistant Dean, Student Personnel Services
 Ed.D., Indiana University and Dean of Women (1966)
 Marie BevanAssistant Dean of Women (1966)
 M.S., University of Wisconsin
 Jo Anne StuebeResidence Hall Counselor (1962)
 M.S. in Ed., Eastern Illinois University
 Barbara A. BuschResidence Hall Counselor (1964)
 M.S. in Ed., Indiana University
 Nancy TaitResidence Hall Counselor (1964)
 M.S., Northern Illinois University (On leave, 1969-70)
 Ann H. AdmanResidence Hall Counselor (1966)
 M.Ed., Wittenberg University
 Doris J. DunkirkResidence Hall Counselor (1967)
 M.S. in Ed., Eastern Illinois University
 Bessie M. FredericksResidence Hall Counselor (1967)
 M.A. University of Missouri
 Margaret J. ReedResidence Hall Counselor (1967)
 M.A., Western Michigan University
 Jurel V. JacksonResidence Hall Counselor (1968)
 M.E.Ed., Northwest Missouri State College
 Le T. N. LienResidence Hall Counselor (1968)
 M.A. in Ed., University of Northern Iowa
 Joyce A. PachciarzResidence Hall Counselor (1968)
 M.S., Eastern Illinois University
 Therese M. KuzlikResidence Hall Counselor (1969)
 B.S., Loyola University
 Donald A. KlugeAssistant Dean, Student Personnel Services
 D.Ed., Indiana University and Dean of Men (1957)
 Jerry ZacharyAssistant Dean of Men (1966)
 Adv.C., University of Illinois
 Louis V. HenckenResidence Hall Counselor (1967)
 M.S. in Ed., Eastern Illinois University
 Cliff J. ErwinResidence Hall Counselor 1968)
 M.S.Ed., Eastern Illinois University
 Joseph L. LuppertResidence Hall Counselor (1968)
 M.S.Ed., Indiana University
 Walter W. GrantResidence Hall Counselor (1969)
 M.S., Illinois State University
 Jerome C. MetzgerResidence Hall Counselor (1969)
 M.S. in Ed., Eastern Illinois University

- William D. MinerAssistant Dean, Student Personnel Services (1950)
Ph.D., Indiana University
- Richard G. EnochsAssistant, Veterans Services and Married
M.S. in Ed., Eastern Illinois University Student Housing (1969)
- James D. CoreyDirector of Counseling Center and
Ed.D., Colorado State College Testing Services (1964)
- Herbert C. BartlingCoordinator of Testing (1969)
M.Ed., University of Texas
- John E. Grimes, Jr.Counseling Psychologist (1968)
M.A., Southern Illinois University
- Irving M. MunnClinical Psychologist, Counseling
A.B., Cornell University Center (1969)
- David T. BairdCounselor (1959)
M.S. in Ed., Indiana University
- Ross C. LymanDirector of Financial Aids (1961)
M.S., Indiana State University
- Sue C. SparksAssistant Director of Financial Aids (1966)
M.S.Ed., Eastern Illinois University
- John T. FlynnAssistant, Office of Financial Aids (1968)
M.S.Ed., Eastern Illinois University
- Ruth H. GaertnerDirector of Residence Hall Food Service (1947)
M.S., Iowa State College
- Jerry D. HeathDirector of Health Services & University Physician (1956)
M.D., University of Illinois (On sabbatical leave, spring and smr., 1970)
- Myron I. BoylsonAssistant, Health Services (1968)
M.D., University of Chicago
- Gilbert T. RansonAssistant, Health Service (1969)
M.D., Vanderbilt University
- Albert G. GreenDirector of Housing (1966)
Ed.D., University of Southern Mississippi
- Lois M. KramerAssistant Director of Housing (1966)
M.A., Boston University
- Robert R. MillerAssistant, Housing (1969)
M.S., Millikin University
- Herbert L. BrooksDirector of University Union (1966)
B.S. in Ed., Eastern Illinois University
- Edwin T. McCawleyAssistant Director, University Union (1969)
- William L. ClarkAssistant Director of University Union (1968)
B.S.Ed., Eastern Illinois University
- Warren J. Wilhelm, Jr.Coordinator of Student Activities (1969)
M.A., Indiana University
- Carl A. FilskowForeign Student Adviser (1968)
M.Ed., Wayne State University
- Glenn D. WilliamsDean of Student Academic Services (1960)
Ph.D., The Ohio State University (On leave, 1969-70)
- Samuel J. TaberAssociate Dean, Student Academic Services (1960)
Ph.D., Southern Illinois University (Acting Dean, 1969-70)
- George Hackler, Jr.Assistant, Student Academic Services and
M.S. in Ed., Eastern Illinois University Director of Extension (1967)
- Maurice W. Manbeck ...Associate Dean, Junior College Relations (1957)
Ph.D., University of Minnesota
- James E. MartinAssistant Dean, Records (1968)
M.A., University of Illinois
- Richard L. CampbellAssistant, Records (1968)
M.S.Ed., Eastern Illinois University
- Edward T. GraeningAssistant Dean, Registration (1967)
M.S., University of Illinois
- William R. QuickAssistant, Registration (1967)
M.S. in Ed., Eastern Illinois University
- William G. HooperDirector, Academic Advisement (1962)
M.S. Ed., Illinois State University

- Sue B. StonerAcademic Adviser (1965)
M.S. in Ed., Eastern Illinois University
- Thomas E. McDevittAcademic Adviser (1966)
M.A., Southern Illinois University
- Claud D. SandersAcademic Adviser (1966)
M.S. in Ed., Eastern Illinois University
- Robert G. WinkleblackAcademic Adviser (1966)
M.S.Ed., Eastern Illinois University
- Calvin B. CampbellAcademic Adviser (1966)
M.A., University of New Mexico
- Janet F. HolleyAcademic Adviser (1968)
M.S.Ed., Eastern Illinois University
- Donald L. SchaeferAcademic Adviser (1968)
M.Ed., University of Illinois
- Dale H. KuntzmanAcademic Adviser (1969)
M.A., Wayne State University
- James E. MillerAcademic Adviser (1969)
M.Ed., University of Toledo
- James F. KnottDirector of Placement (1957)
Ed.D., Northern Illinois University
- Robert E. JonesAssistant Director of Placement (1963)
M.S., Indiana State University
- Murray R. ChoateDirector of Admissions and High School Relations (1962)
M.S.Ed., Southern Illinois University
- C. Michael DavidAssistant Director, Admissions and High School Relations (1968)
M.S.Ed., Eastern Illinois University
- Ernest R. MorrisAssistant, Admissions and High School Relations (1969)
M.S. in Ed., Eastern Illinois University
- Roland D. SpaniolActing Director, Data Processing Center (1960)
Ph.D., University of Iowa
- Harley J. HoltVice President for Business Services (1963)
M.S., University of Wisconsin
- Marion L. ZaneController (1965)
M.S.Ed., Eastern Illinois University
- Paul E. HippleInternal Auditor (1968)
B.S., Indiana University
- John H. MorrisseyBudget Officer (1968)
M.S.Ed., Eastern Illinois University
- Everett R. AlmsSuperintendent of Physical Plant (1965)
- Martin SchaeferVice President for Development (1958)
Ph.D., The University of Iowa
- Wayne S. OwensAdministrative Associate (1969)
Ed.D., Indiana University
- Robert H. WeidhunerAssistant, Administrative Studies (1966)
B.S., Southern Illinois University

UNIVERSITY RELATIONS AND SPECIAL SERVICES

- Kenneth E. HeslerDirector, University Relations and Alumni Services (1951)
M.Ed., University of Illinois
- Harry Read Director, Information and University Publications (1964)
B.S.Ed., Eastern Illinois University
- Dwight ConnellyAssistant, University Relations (1968)
M.S., Ohio University
- Terrence J. McCulloughAssistant, University Relations (1969)
B.S., Marquette University

INSTRUCTIONAL STAFF

- Dewey F. Abell, M.L.S.University of California
Assistant Professor, Library. (1969)
- David C. Ahlstrom, Ph.D.Eastman School of Music
Associate Professor, Music Theory, History, and Literature. (1967)
- Patsy R. Alexander, Ed.D.Oklahoma State University
Associate Professor, Home Economics. (1969)
- Dewey H. Amos, Ph.D.University of Illinois
Professor, Geography and Geology. (1965)
- Eulalee L. Anderson, M.S. in Ed.Eastern Illinois University
Instructor, Library (Part-Time). (1967)
- Mary L. Anderson, Ed.S.George Peabody College for Teachers
Assistant Professor, Faculty of Education. (1958)
- Leslie T. Andre, D.Pol.S.Franz Josef Royak University
Assistant Professor, Library. (On sabbatical leave, spring quarter) (1962)
- Richard D. Andrews, Ph.D.University of Illinois
Assistant Professor, Zoology. (1966)
- Carolyn Anfinson, M.S. in Ed.Eastern Illinois University
Instructor, English. (1964)
- Mary B. Armstrong, M.A.University of Illinois
Instructor, Speech Pathology and Audiology. (1968)
- Charles B. Arzeni, Ph.D.University of Michigan
Associate Professor, Botany. (1965)
- Mary E. Atchison, B.S. in Ed.Southern Illinois University
Faculty Assistant, Physical Education for Women. (1969)
- Dennis W. Aten, B.S.University of Nebraska
Instructor, Physical Education for Men. (1968)
- D. Ferrel Atkins, Ph.D.University of Kentucky
Professor, Mathematics. (1958)
- Martha N. Atteberry, M.Ed.University of Illinois
Assistant Professor, Laboratory School. (1967)
- Alan R. Aulabaugh, Ph.D.The University of Iowa
Professor, Music Theory, History and Literature.*
(On sabbatical leave, 1969-70) (1957)
- Joseph T. Babicki, A.M.L.S.University of Michigan
Assistant Professor, Library. (1969)
- Jumuna Bai, Ph.D.Wayne State University
Assistant Professor, Sociology-Anthropology. (1967)
- C. Ian Bailey, M.A.Colorado State College
Instructor, Physical Education for Men. (1968)
- Zeno E. Bailey, Ph.D.The Ohio State University
Professor, Botany. (1969)
- D. Jeanette Baker, M.S. in Ed.Eastern Illinois University
Instructor, Business and Education. (1969)
- Weldon N. Baker, Ph.D.Columbia University
Professor, Chemistry. (1958)
- Harold E. Balbach, Ph.D.University of Illinois
Assistant Professor, Botany. (1966)
- Margaret K. Balbach, Ph.D.University of Illinois
Associate Professor, Botany. (1968)
- E. Dean Baldwin, M.S.University of Illinois
Assistant Professor, Economics. (1969)
- Wesley E. Ballsrud, M.A.The University of Iowa
Assistant Professor, Accounting.* (1964)
- James H. Baltzell, Ph.D.Indiana University
Professor, Foreign Languages. (1969)
- Robert Barford, M.A.Marquette University
Assistant Professor, Philosophy. (1968)

* Denotes department head.

** Denotes acting department head.

- Shirley R. Barrette, B.S.Ed.Eastern Illinois University
Faculty Assistant, Laboratory School (Part-Time). (1968)
- Roger J. Barry, M.S.Ed.Eastern Illinois University
Assistant Professor, Geography and Geology. (On leave, 1969-70) (1965)
- Craig R. Baumrucker, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Botany. (Part-Time) (1969)
- Steven A. Becker, Ph.D.The University of Iowa
Assistant Professor, Botany. (1968)
- M. Jeanine Bennett, M.S.University of Washington
Instructor, Physical Education for Women. (1969)
- Randall H. Best, Ph.D.Oklahoma State University
Assistant Professor, Psychology. (1968)
- Mary A. Bialek, M.Ed.George Peabody College
Assistant Professor, Music Education. (1969)
- Clyde W. Biggers, M.A.University of North Carolina
Instructor, Physical Education for Men. (1965)
- Ann T. Bletsch, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Life Science. (Part-Time) (1969)
- Paul G. Bodine, M.A.Washington University
Assistant Professor, Art. (1966)
- Virginia Bodine, M.A.University of Illinois
Instructor, Art. (1967)
- Robert O. Bollinger, M.S.Wayne State University
Instructor, Zoology. (1969)
- Mark R. Bomball, M.S.Illinois State University
Instructor, Management. (1969)
- Fred J. Bouknight, Ed.D.Columbia University
Professor, Music. (1959)
- Wendell E. Boutwell, M.S.L.S.University of Illinois
Instructor, Library. (1968)
- Robert E. Bowman, D.M.A.University of Southern California
Substitute Assistant Professor, Keyboard. (1969)
- Earl W. Boyd, Ph.D.The University of Iowa
Professor, Instrumental Music.*
- John L. Braun, Ph.D.The University of Iowa
Assistant Professor, Health Education. (1969)
- Karen J. Braun, M.F.A.Temple University
Instructor, Art. (1968)
- Marvin L. Breig, Ph.D.University of Oklahoma
Associate Professor, Physics. (1963)
- Lois M. Bronnert, M.S.Indiana State University
Instructor, Speech Pathology and Audiology and Education. (1968)
- Elmer L. Brooks, Ph.D.Harvard University
Professor, English. (On leave, 1969-70) (1956)
- Robert E. Brown, M.A.Niagara University
Assistant Professor, English. (1969)
- Rose Ann Bryce, D.Ed.Colorado State College
Associate Professor, Business Education and Secretarial Studies. (1969)
- Ewen L. Bryden, Ph.D.Ohio State University
Assistant Professor, Physical Education for Men. (1969)
- William F. Buckellew, Ed.D.University of Arkansas
Associate Professor, Physical Education for Men and Education. (1962)
- John D. Buenker, Ph.D.Georgetown University
Associate Professor, History. (1965)
- Rodney Buffington, M.S. in Ed.Eastern Illinois University
Instructor, Art and Education. (1969)
- James Busskohl, Ph.D.Southern Illinois University
Assistant Professor, English. (1967)
- Roger O. Camp, M.A.¹University of Texas
Instructor, English. (1969)

¹ Resigned February 28, 1970.

- Betty J. Campbell, M.S. in Ed.Eastern Illinois University
Instructor, Business and Education. (1969)
- S. Clyde Cappon, D.M.A.Boston University
Associate Professor, Laboratory School. (1968)
- Eugene R. Carey, Ph.D.The University of Iowa
Assistant Professor, Management. (1968)
- Joseph E. Carey, Ed.D.Indiana University
Associate Professor, Elementary and Junior High School Education (1958)
- Robert A. Carey, P.E.D.Indiana University
Professor, Physical Education for Men. (1953)
- Gerald F. Carr, Ph.D.University of Wisconsin
Assistant Professor, Foreign Languages. (1968)
- William B. Cash, M.A.Kent State University
Instructor, Speech. (On sabbatical leave, 1969-70) (1964)
- Gloria Ceide-Echevarria, Ph.D.University of Illinois
Assistant Professor, Foreign Languages. (1965)
- Dayton K. Chase, D.Ed.University of North Dakota
Associate Professor, Business Education and Secretarial Studies. (1968)
- Carrie C. Chen, M.L.S.University of Pittsburgh
Instructor, Library. (1968)
- Robert P. Chen, M.L.S.University of Pittsburgh
Assistant Professor, Library. (1968)
- Yung Ping Chen, Ph.D.University of Maryland
Associate Professor, Political Science. (1966)
- Frank P. Chizevsky, M.S.Millikin University
Instructor, Physical Education for Men. (1966)
- Roger C. Claar, M.S. in Ed.Eastern Illinois University
Instructor, Business and Education. (1969)
- Selby G. Clark, Ed.D.Washington State University
Visiting Lecturer, Educational Psychology and Guidance. (1969)
- William M. Cloud, Ph.D.University of Wisconsin
Professor, Physics. (1962)
- H. Logan Cobb, Ph.D.University of Missouri
Professor, Foreign Languages. (1963)
- Louanne Cobb, M.S.East Texas State University
Instructor, Physical Education for Women. (1969)
- Elvis R. Coble, M.Mus.Ed.University of Colorado
Instructor, Laboratory School. (1968)
- Harold G. Coe, Ph.D.Purdue University
Associate Professor, Psychology.* (1965)
- Edward P. Colbert, Ph.D.Catholic University of America
Associate Professor, History. (1968)
- George M. Colby, M.A.University of Chicago
Assistant Professor, English. (1962)
- Wayne D. Coleman, D.Ed.Colorado State College
Associate Professor, Industrial Technology.* (1957)
- Lloyd R. Collins, Ph.D.University of Arizona
Associate Professor, Sociology-Anthropology. (1969)
- Anna M. Como, B.S. in Ed.Indiana University of Pennsylvania
Faculty Assistant, Elementary and Junior High School Education. (1969)
- Frank T. Como, Ph.D.Arizona State University
Associate Professor, English. (1969)
- Dwight Connelly, M.S.Ohio University
Instructor, English. (1968)
- Joseph T. Connelly, Ed.D.University of Illinois
Associate Professor, Political Science* (1958)
- Lewis H. Coon, Ed.D.Oklahoma State University
Professor, Mathematics. (1965)
- Alice M. Cooper, M.S.University of Illinois
Assistant Professor, Library. (1968)
- George K. Cooper, Ph.D.University of Michigan
Professor, Business Education and Secretarial Studies.* (1962)

- Edward M. Corley, Ph.D.Oklahoma State University
Assistant Professor, Economics.* (1967)
- Calvin Countryman, D.Ed.Pennsylvania State University
Professor, Art. (1945)
- Delmar Crabill, M.S.Purdue University
Assistant Professor, Mathematics. (1963)
- Francis H. Craig, M.S. in Ed.Southern Illinois University
Assistant Professor, Laboratory School. (1957)
- William J. Crane, Ph.D.Yale University
Professor, Educational Psychology and Guidance. (1961)
- Laurence E. Crofutt, M.A.Indiana University
Assistant Professor, Botany. (1967)
- Joyce S. Crouse, Ph.D.Southern Illinois University
Associate Professor, Home Economics Education* (1968)
- Richard L. Crouse, M.A.University of Wisconsin
Assistant Professor, Foreign Languages. (1966)
- William H. Culp, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Life Science.-(Part-Time) (1969)
- George L. Cunningham, Ph.D.University of California, Berkeley
Professor, Chemistry. (1961)
- Carleton E. Curran, Ph.D.University of Wisconsin
Associate Professor, History. (1966)
- Rex V. Darling, Dir. P.E.Indiana University
Assistant Professor, Physical Education for Men. (1945)
- M. Marise Daves, Ed.D.New York University
Professor, Physical Education for Women.
(On sabbatical leave, spring and summer quarters 1970) (1955)
- Joyce E. David, B.S.University of Illinois
Faculty Assistant, Physical Education for Women. (1968)
- Jack W. Dean, M.S. in Ed.Northern Illinois University
Assistant Professor, Physical Education for Men. (1969)
- Garret W. DeRuiter, M.F.A.Southern Illinois University
Assistant Professor, Art. (1965)
- Bernard J. Derwort, Ph.D.St. Louis University
Professor, Mathematics. (1964)
- Helen Devinney, A.M.Columbia University
Assistant Professor, Home Economics. (1943)
- Lynn D. Devore, B.S. in Bus.Eastern Illinois University
Faculty Assistant, Management. (Part-Time) (1969)
- Alphonso J. DiPietro, Ph.D.George Peabody College for Teachers
Professor, Mathematics.* (1959)
- Patrick J. Docter, Ph.D.Purdue University
Associate Professor, Zoology. (1969)
- Martha J. Doemelt, M.S.Ed.Eastern Illinois University
Instructor, Laboratory School. (1968)
- Benjamin Dolbeare, B.S. in Ed.Western Illinois University
Faculty Assistant, Botany. (Part-Time) (1969)
- Ernest E. Dolson, M.S.Indiana State University
Assistant Professor, Mathematics and Education. (1968)
- Donald Dolton, M.A.Oklahoma State University
Assistant Professor, English. (1966)
- James M. Dorris, M.F.A.University of Georgia
Instructor, Speech. (1969)
- Earl Doughty, Ph.D.Southern Illinois University
Associate Professor, Faculty of Education. (1963)
- Sharon Douglas, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Mathematics. (Part-Time) (1969)
- Ruth Dow, M.S.University of Illinois
Instructor, Home Economics. (Part-Time) (1969)
- Dale D. Downs, Adv.C.University of Illinois
Assistant Professor, Laboratory School. (1963)

- Martha I. Drew, M.Ed.University of Illinois
Assistant Professor, Management.
(On sabbatical leave, spring and summer quarters, 1970) (1958)
- Richard A. Dulka, B.A.St. Benedict's College (Kansas)
Assistant Professor, Foreign Languages. (1968)
- Leonard Durham, Ph.D.University of Illinois
Professor, Zoology. (1955)
- Olga K. Durham, B.F.A.University of Illinois
Faculty Assistant, Art. (1957)
- Genevra Dvorak, M.S. in Ed.Eastern Illinois University
Instructor, English.
(On sabbatical leave, spring and summer quarters, 1970) (1964)
- Hannah N. Eads, M.S. in Ed.Eastern Illinois University
Assistant Professor, Laboratory School. (1961)
- K. C. Eapen, Ph.D.University of Colorado
Associate Professor, English. (1965)
- David W. Ebdon, Ph.D.University of Maryland
Assistant Professor, Chemistry. (1968)
- Priscilla Ebdon, M.A.University of Maryland
Instructor, English. (1969)
- John E. Ebinger, Ph.D.Yale University
Associate Professor, Botany.
(On sabbatical leave spring and summer quarters, 1970) (1963)
- Donald R. Eddy, M.Ed.University of Southern Mississippi
Instructor, Physical Education for Men. (1968)
- Snowden L. Eisenhour, Ph.D.University of Illinois
Associate Professor, Physics. (1961)
- Gladys W. Ekeberg, Ph.D.University of Wisconsin
Professor, English. (1945)
- E. Duane Elbert, Ph.D.Indiana University
Assistant Professor, History. (1966)
- Aline R. Elliott, M.S.The University of Iowa
Assistant Professor, Physical Education for Women. (1944)
- Betty G. Elliott, M.A.Ball State University
Substitute Instructor, Laboratory School. (1969)
- Charles A. Elliott, Ed.D.University of Missouri
Professor, Industrial Arts and Technology. (1945)
- Thomas L. Elliott, D.Ed.Colorado State College
Associate Professor, Business Education and Secretarial Studies. (1969)
- Jerry W. Ellis, Ph.D.Oklahoma State University
Assistant Professor, Chemistry. (1966)
- Walter L. Elmore, M.A.University of Kentucky
Assistant Professor, Physical Education for Men and Education. (1948)
- Carl E. Emmerich, D.Ed.The Pennsylvania State University
Associate Professor, Art. (1962)
- Ruth Erckmann, M.A.University of South Dakota
Assistant Professor, Mathematics. (1963)
- John R. Ericksen, M.S.Ed. Eastern Illinois University
Instructor, Laboratory School. (1967)
- Clifford H. Erwin, D.Ed.Indiana University
Professor, Industrial Arts and Education. (1956)
- Robert J. Eudeikis, M.S. in Ed.Illinois State University
Assistant Professor, Physical Education for Men. (1962)
- Clifford L. Fagan, Ph.D.The University of Iowa
Professor, Marketing.* (1949)
- Frances D. Falen, M.S.Ed.Kansas State University
Instructor, Laboratory School. (1968)
- John R. Faust, Ph.D.University of North Carolina
Associate Professor, Political Science. (1966)
- Audrey Fedor, B.S.
Faculty Assistant, Library. (Part-Time) (1954)

- Robert H. Feiertag, Ph.D.University of Illinois
Substitute Assistant Professor, Chemistry. (Fall Quarter) (1969)
- Isaac C. Ferguson, M.S.Brigham Young University
Instructor, Health Education. (1969)
- Larry E. Ferguson, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Laboratory School. (1969)
- Max B. Ferguson, Ph.D.The University of Iowa
Professor, Zoology. (1950)
- Janice L. Flake, M.A.University of Illinois
Assistant Professor, Mathematics. (1969)
- Patricia Flaughner, M.S.Southern Illinois University
Instructor, Physical Education for Women. (1969)
- M. Lorraine Flower, Ph.D.University of Oregon
Associate Professor, Physical Education for Women. (1965)
- Thomas W. Floyd, Ed.D.University of Illinois
Associate Professor, Faculty of Education. (1967)
- C. Dan Foote, Ph.D.University of Illinois
Assistant Professor, Chemistry. (1965)
- John P. Ford, Ph.D.The Ohio State University
Assistant Professor, Geography and Geology. (1966)
- Melvin O. Foreman, Ph.D.University of Chicago
Professor, Chemistry. (1946)
- Paul Foreman, Ph.D.University of Illinois
Assistant Professor, Zoology. (1966)
- Clifton N. Foster, Ed.D.University of Nebraska
Assistant Professor, Faculty of Education. (1966)
- Marilyn M. Foster, M.Ed.University of Nebraska
Instructor, Psychology. (Part-Time) (1968)
- Delbert D. Foust, Adv.C.University of Illinois
Assistant Professor, Laboratory School. (1964)
- Arlen Fowler, Ph.D.Washington State University
Associate Professor, History. (1969)
- Ewell W. Fowler, Ed.D.University of Missouri
Professor, Industrial Arts and Technology. (1941)
- Frank A. Fraembs, M.S.University of Illinois
Assistant Professor, Zoology. (1964)
- Richard C. Funk, Ph.D.University of Kansas
Assistant Professor, Zoology. (1965)
- Fred J. Furman, M.B.A.Stanford University
Assistant Professor, Management. (1968)
- E. G. Gabbard, Ph.D.The University of Iowa
Professor of Theater Arts.* (1947)
- Lucina P. Gabbard, M.A.State University of Iowa
Instructor, English. (1968)
- Pauline Galbreath, M.S.L.S.University of Illinois
Instructor, Library. (1967)
- Walter C. Garland, Ph.D.The Ohio State University
Professor, Administration and Supervision. (1968)
- Donald P. Garner, Ph.D.Wayne State University
Professor, Speech.* (1963)
- Luther R. Gibson, B.S. in Ed.Eastern Illinois University
Assistant Professor, Physics. (1959)
- James F. Giffin, Ph.D.Northwestern University
Professor, School of Business. (1947)
- Michael A. Goodrich, Ph.D.Pennsylvania State University
Associate Professor, Zoology. (1964)
- Gerald L. Gossett, M.S.Indiana State University
Instructor, Physical Education for Men. (1969)
- Timothy D. Gover, M.S.University of Illinois
Assistant Professor, Management. (1963)

- Louis M. Grado, Ph.D.The University of Iowa
Professor, Elementary and Junior High School Education* (1955)
- Grant G. Gray, Ph.D.University of South Dakota
Assistant Professor, Botany. (1966)
- Carl K. Green, Ed.D.University of Houston
Professor, Educational Psychology and Guidance. (1958)
- Marguerite E. Green, M.P.H.University of Minnesota
Assistant Professor, Health Education. (1958)
- Norma C. Green, M.Ed.University of Southern Mississippi
Instructor, Physical Education for Women. (1966)
- Patricia M. Green, Dip. in Ed.Cambridge University
Faculty Assistant, Laboratory School. (Part-Time) (1969)
- William E. Green, Ph.D.The Ohio State University
Professor, Management.* (1966)
- Johanne F. Grewell, M.S.L.S.University of Illinois
Instructor, Library. (1966)
- Raymond Griffin, D.Ed.Colorado State College
Associate Professor, Laboratory School. (1958)
- Jerry Griffith, Ph.D.University of Illinois
Associate Professor, Speech Pathology and Audiology. (1966)
- Waldo Grigoroff, M.S. in Ed.University of Illinois
Assistant Professor, History and Social Sciences and Education. (1961)
- Karl M. Grisso, M.A.L.S.Indiana University
Assistant Professor, Library. (1969)
- Dennis C. Gross, M.S.Ed.Southern Illinois University
Assistant Professor, Accounting. (1966)
- John C. Guckert, Ph.D.The Ohio State University
Assistant Professor, Faculty of Education. (1968)
- Gary L. Gueldner, M.S.Ed.Eastern Illinois University
Instructor, Accounting. (1967)
- Paul O. Gurholt, M.S.University of Wisconsin
Assistant Professor, Laboratory School. (1955)
- Edwin C. Hackleman, Jr., M.S.University of Illinois
Instructor, Marketing. (1969)
- Ken E. Hadwiger, Ph.D.University of Oklahoma
Associate Professor, Speech. (1964)
- Lavern M. Hamand, Ph.D.University of Illinois
Professor, History. (On sabbatical leave, summer, 1970) (1957)
- Martha T. Hamand, A.B.University of Illinois
Faculty Assistant, English. (1964)
- Julian J. Hamerski, Ph.D.University of the Pacific
Associate Professor, Chemistry. (1963)
- Robert R. Hancock, M.S.Southern Illinois University
Assistant Professor, Mathematics and Education. (1965)
- Barbara Hanson, B.S.Indiana University
Faculty Assistant, Laboratory School. (Part-Time) (1968)
- Burton E. Hardin, D.M.Ed.University of Oklahoma
Associate Professor, Instrumental Music. (1969)
- Robert Y. Hare, Ph.D.The University of Iowa
Professor, School of Music. (1965)
- Stanley G. Harris, B.A.University of Missouri
Assistant Professor, Foreign Languages. (1968)
- Charles R. Harrison, M.A.University of Oklahoma
Instructor, Speech. (1969)
- Norma J. Harrison, B.S.Bethany Nazarene College
Faculty Assistant, Home Economics. (Part-Time) (1969)
- Dorothy M. Hart, Ph.D.The University of Iowa
Professor, Physical Education for Women. (1947)
- Betty R. Hartbank, M.S.University of Illinois
Assistant Professor, Library. (1956)

- Fred Hattabaugh, M.S. in Ed. Eastern Illinois University
Assistant Professor, Laboratory School. (1965)
- Helen L. Haughton, M.S. University of Illinois
Assistant Professor, Home Economics. (On leave, 1969-70) (1956)
- Edith M. Hedges, M.S. University of Wisconsin
Instructor, Home Economics (1966)
- Frank H. Hedges, M.S. University of Illinois
Instructor, Zoology. (1965)
- Carol M. Helwig, M.Ed. University of Illinois
Assistant Professor, Faculty of Education. (1969)
- Giles L. Henderson, M.S. Montana State University
Instructor, Chemistry. (1966)
- Judith Henderson, M.Ed. University of Illinois
Instructor, Laboratory School. (1969)
- Robert E. Hennings, Ph.D. University of California, Berkeley
Associate Professor, History. (On sabbatical leave, 1969-70) (1962)
- James A. Herauf, M.S. Southern Illinois University
Assistant Professor, Health Education. (1965)
- Billy J. Heyduck, M.F.A. University of Illinois
Assistant Professor, Art.** (1966)
- Gretchen Hieronymus, D.Ed. University of Illinois
Associate Professor, Music Education. (1960)
- Albert R. Hinson, M.F.A. Miami University
Instructor, Art. (1965)
- Dan M. Hockman, M.S. in Ed. Eastern Illinois University
Instructor, History and Social Studies and Education (1965)
- Mildred S. Hofacker, MA Western Reserve University
Instructor, Speech. (1956)
- Arnold J. Hoffman, M.S. University of Illinois
Assistant Professor, Chemistry. (1943)
- Arthur C. Hoffman, M.B.A. University of Wisconsin
Assistant Professor, Accounting. (1966)
- Bertrand P. Holley, M.A. Northwestern University
Assistant Professor, Management. (1946)
- Charles A. Hollister, Ph.D. University of Pennsylvania
Professor, Political Science. (1967)
- Janet M. Hooks, Ph.D. University of Illinois
Associate Professor, Economics. (1963)
- Richard L. Hooser, M.S. University of Illinois
Assistant Professor, Health Education. (1965)
- Jon J. Hopkins, Ph.D. Pennsylvania State University
Professor, Speech. (1956)
- Mildred I. Hopkins, B.S. Northern Illinois University
Faculty Assistant, Laboratory School. (1964)
- Stephan M. Horak, Ph.D. University of Erlangen
Associate Professor, History. (1965)
- Kathleen M. Howell, Ph.D. The Ohio State University
Associate Professor, Home Economics and Education. (1967)
- Nai-chao Hsu, Ph.D. Washington University
Associate Professor, Mathematics. (1966)
- Glen E. Hubele, Ph.D. University of Illinois
Assistant Professor, Educational Psychology and Guidance. (1968)
- Daniel E. Hughes, M.A. Boston College
Assistant Professor, English and Education. (1967)
- Richard L. Hummel, M.A. Indiana University
Assistant Professor, Sociology-Anthropology. (1969)
- Lawrence B. Hunt, Ph.D. University of Wisconsin
Assistant Professor, Zoology (1967)
- Ralph R. Hunt, M.A. Indiana University
Instructor, English. (1966)
- John G. Husa, Ph.D. University of Chicago
Associate Professor, Botany. (1966)

- Robert W. Hussey, D.Ed.Colorado State College
Associate Professor, Physical Education for Men. (1966)
- Frank E. Hustmyer, Jr., Ph.D.University of Cincinnati
Associate Professor, Psychology. (1969)
- Marjorie T. Hutton, M.S. in Ed.Eastern Illinois University
Instructor, Speech (Part-Time) (1964)
- Virginia W. Hyett, A.M.University of Missouri
Assistant Professor, Art. (1944)
- Bill V. Isom, M.S. in Ed.Southern Illinois University
Assistant Professor, Library. (1964)
- Ann E. Jackson, D.Ed.Arizona State University
Associate Professor, Laboratory School. (On leave, 1969-70) (1958)
- Abdul J. Jawad, Ph.D.University of Chicago
Associate Professor, Sociology-Anthropology. (1968)
- George A. Jocums, M.A.Duquesne University
Assistant Professor, Foreign Languages and Education. (1969)
- Caryl L. Johnson, M.S. in Ed.Eastern Illinois University
Substitute Instructor, Home Economics. (1969)
- Charles H. Johnson, J.D.University of Wisconsin
Associate Professor, Management. (1967)
- Dorothe L. Johnson, Adv.C.University of Illinois
Assistant Professor, Physical Education for Women. (1968)
- June Johnson, D.M.A.University of Illinois
Associate Professor, Vocal Music. (1960)
- Ronald D. Johnson, M.S.Northern Illinois University
Instructor, Marketing. (1968)
- Barbara J. Joley, B.S.Ed.University of Illinois
Faculty Assistant, Laboratory School. (1968)
- Austin Jones, B.S.Southern Illinois University
Faculty Assistant, Accounting. (Part-Time) (1969)
- George H. Jones, D.Phil.Oxford University
Associate Professor, History. (1966)
- Robert W. Jordan, Ph.D.Washington University
Assistant Professor, Chemistry. (1966)
- Robert H. Karraker, Ph.D.Iowa State University
Associate Professor, Chemistry. (1967)
- Tom Katsimpalis, Ed.D.Colorado State College
Associate Professor, Physical Education for Men. (1959)
- John H. Keiser, Ph.D.Northwestern University
Assistant Professor, History. (1965)
- Richard L. Keiter, Ph.D.University of Maryland
Assistant Professor, Chemistry. (1969)
- John J. Kelleher, Ph.D.University of Pittsburgh
Associate Professor, English. (1964)
- Leo L. Kelly, Ph.D.Purdue University
Associate Professor, Foreign Languages. (1968)
- Nancy O. Keppler, M.S.University of Illinois
Instructor, Home Economics. (Part-Time) (1968)
- William J. Keppler, Ph.D.University of Illinois
Assistant Professor, Zoology. (1965)
- Rhoderick E. Key, M.Mus.Ed.Southern Illinois University
Assistant Professor, Laboratory School. (1966)
- Ha Poong Kim, Ph.D.Boston University
Assistant Professor, Philosophy. (1967)
- Paul F. Kirby, Ph.D.University of Pittsburgh
Professor, Foreign Languages. (1964)
- Walter A. Klehm, Ed.D.University of Missouri
Professor, Industrial Arts and Technology. (1938)

- Judd Kline, Ph.D.University of Minnesota
Professor, English. (1948)
- Henry W. Knapp, Ph.D.¹University of Nebraska
Associate Professor, Faculty of Education. (1965)
- Verne B. Kniskern, Ph.D.University of Michigan
Professor, Zoology. (1950)
- Cary I. Knoop, M.F.A.University of Illinois
Assistant Professor, Art (1953)
- Raymond L. Koch, Ph.D.University of Minnesota
Assistant Professor, History. (1966)
- Daniel J. Koenig, M.S.Florida State University
Assistant Professor, Sociology-Anthropology. (1968)
- Lloyd L. Koontz, M.A.University of Arkansas
Assistant Professor, Mathematics. (1963)
- Fethi M. Kopuz (Bachelor's)Faculty of Letters, Istanbul, Turkey
Lecturer, Instrumental Music. (1967)
- Bruce Kraig, Ph.D.University of Pennsylvania
Assistant Professor, History. (1968)
- Eugene G. Krehbiel, Ph.D.Kansas State University
Associate Professor, Zoology. (1963)
- James W. Krehbiel, Ph.D.Indiana University
Associate Professor, Music Theory, History and Literature. (1965)
- Claire E. Krukenberg, M.A.University of Illinois
Assistant Professor, Mathematics. (1968)
- June M. Krutza, Ph.D.Ohio State University
Associate Professor, Art. (1952)
- Carol C. Ku, M.L.S.University of Pittsburgh
Instructor, Library. (1967)
- Oren F. Lackey, M.S.University of Illinois
Assistant Professor, Botany. (1963)
- Richard R. LaCroix, M.A.Wayne State University
Assistant Professor, Philosophy. (1968)
- Jane Lahey, M.S.Ed.University of Illinois
Assistant Professor, Management. (1957)
- Thomas H. Lahey, Ed.D.University of Virginia
Associate Professor, Laboratory School. (1966)
- Jon M. Laible, Ph.D.University of Illinois
Associate Professor, Mathematics. (1964)
- Bert A. Landes, M.A.T.Colorado State University
Instructor, Botany and Zoology and Education. (1967)
- Marjorie Lanman, M.Ed.University of Illinois
Substitute Instructor, Business Education and Secretarial Studies. (1961)
- Harry R. Larson, Ed.D.Colorado State College
Associate Professor, Faculty of Education. (1960)
- Herbert Lasky, M.A.New York University
Assistant Professor, History. (1966)
- Abdul Lateef, Ph.D.Southern Illinois University
Assistant Professor, Political Science. (1968)
- Dorothy M. Lawson, B.S. in Ed.Clarion State College
Faculty Assistant, Laboratory School. (Part-Time) (1969)
- Richard W. Lawson, M.S.L.S.Western Reserve University
Assistant Professor, Library. (On leave, 1968-69) (1964)
- Walter S. Lazenby, Jr., Ph.D.Indiana University
Professor, English. (1969)
- David H. Leach, B.S.Eastern Illinois University
Faculty Assistant, Management. (Part-Time) (1969)
- Ronald M. Leathers, M.S.Indiana State University
Instructor, English and Education. (1965)

¹ Deceased, September 18, 1969.

- John W. LeDuc, M.S.University of Utah
Assistant Professor, Mathematics. (On leave, 1969-70) (1965)
- Glenn Q. Lefler, Ph.D.Indiana University
Professor, Physics.* (1946)
- Peter R. Leigh, Ph.D.University of Southern California
Assistant Professor, Political Science. (1969)
- Roland Leipholtz, Ed.D.University of Michigan
Associate Professor, Art. (1955)
- Patrick M. Lenihan, Ph.D.University of Wisconsin
Assistant Professor, Economics. (1967)
- Maurice C. Libbey, M.S.Columbia University
Instructor, Library. (1967)
- John W. Linn, M.A.San Diego State College
Instructor, Art (1967)
- Inez B. Livingston, Ph.D.The Ohio State University
Associate Professor, Psychology. (1968)
- Alfred Loeffler, Ph.D.University of Minnesota
Associate Professor, Music Theory, History, and Literature. (1969)
- Jerome B. Long, Ph.D.Fordham University
Associate Professor, Philosophy. (1966)
- Arthur J. Looby, Ed.D.University of Missouri
Professor, Psychology. (1959)
- Walter S. Lowell, Ed.D.Michigan State University
Professor, Physical Education for Men. (1961)
- Fred W. MacLaren, Ph.D.University of Oklahoma
Associate Professor, Faculty of Education. (1965)
- John N. Maharg, D.Ed.University of Illinois
Professor, Vocal Music.* (1958)
- Arch Richard Mallard, III, M.A.North Texas State University
Instructor, Speech Pathology and Audiology. (1968)
- William E. Mannakee, M.A.Northwestern University
Instructor, Theater Arts. (1969) (On leave, spring quarter 1970)
- Elwyn L. Martin, Ph.D.University of Michigan
Associate Professor, Geography and Geology. (1956)
- Joseph M. Martin, M.M.Ed.East Carolina University
Assistant Professor, Instrumental Music. (1969)
- Jacinto C. Martinez, M.S.East Texas State University
Instructor, Zoology. (1966)
- Thomas O. Maruna, M.B.A.Ohio University
Instructor, Marketing. (1968)
- John W. Masley, Ed.D.Pennsylvania State University
Professor, Physical Education for Men. (1952)
- Merrillie Mather, Ph.D.Boston University
Professor, English. (1951)
- Gerhard C. Matzner, Ph.D.Cornell University
Professor, Administration and Supervision. (1955)
- David J. Maurer, Ph.D.The Ohio State University
Associate Professor, History. (1962)
- Paul W. Mausel, Ph.D.University of North Carolina
Assistant Professor, Geography and Geology. (1965)
- Jaime A. Maya, Ph.D.University of Arizona
Assistant Professor, Zoology. (1966)
- Giva R. McBride, B.S.University of Texas
Faculty Assistant, Theater Arts. (1969)
- Michael W. McBride, B.F.A.University of Texas
Faculty Assistant, Theater Arts. (1969)
- William J. McCabe, M.A.The University of Iowa
Assistant Professor, Physical Education for Men. (1962)
- Beryl F. McClerren, Ph.D.Southern Illinois University
Associate Professor, Speech. (1964)

- Frances W. McColl, M.A.Columbia University
Assistant Professor, English. (1957)
- Glenn A. McConkey, Ph.D.The University of Iowa
Professor, Economics. (1958)
- Terrence McCullough, B.S. Marquette University
Faculty Assistant, English. (1969)
- Walter H. McDonald, Ph.D.University of Illinois
Professor, Geography and Geology and Education. (1958)
- John F. McElligott, M.A.New York University
Assistant Professor, History. (1967)
- Donald L. McKee, M.A.University of Illinois
Assistant Professor, Laboratory School. (1961)
- F. Raymond McKenna, Ed.D.Harvard University
Professor, Faculty of Education. (1953)
- Jerry McRoberts, M.A.University of Illinois
Instructor, Art. (Part-Time) (1963)
- Robert E. Meier, M.S.Southern Illinois University
Assistant Professor, Management. (On sabbatical leave, 1969-70) (1964)
- John E. Mertes, D.B.A.Indiana University
Professor, Marketing, & Coordinator of Graduate Business Studies. (1969)
- W. Kay Metcalf, M.S. in Ed.Eastern Illinois University
Instructor, Physical Education for Women. (1965)
- Roy A Meyerholtz, M.A.University of Illinois
Assistant Professor, Mathematics. (1961)
- Elizabeth Michael, Ph.D.Université Laval
Professor, Foreign Languages. (On sabbatical leave, spring and
summer quarters, 1970) (1930)
- Martin M. Miess, Ph.D.Universitaet Innsbruck
Professor, Foreign Languages.* (1956)
- Beverly B. Miller, M.S.University of Illinois
Instructor, Library Science (1967)
- Charles E. Miller, Jr., B.S.Ed.Eastern Illinois University
Faculty Assistant, Physics. (1967)
- L. E. Miner, M.A.Michigan State University
Assistant Professor, Speech Pathology and Audiology. (1963)
- William D. Miner, Ph.D.Indiana University
Professor, History. (1950)
- Al R. Moldroski, M.A.Michigan State University
Assistant Professor, Art. (1963)
- Donald L. Moler, Ph.D. University of Kansas
Professor, Educational Psychology and Guidance.* (1951)
- Edward O. Moll, Ph.D.University of Utah
Assistant Professor, Zoology. (1968)
- Helen M. Moody, M.S.Springfield College
Assistant Professor, Physical Education for Women and Education. (1962)
- Betty J. Moore, M.A.University of Nevada
Assistant Professor, Laboratory School. (1968)
- John T. Moore, D.B.A.Indiana University
Professor, Marketing. (1969)
- Mildred D. Morgan, M.A.Columbia University
Assistant Professor, Laboratory School. (1946)
- Herbert O. Morice, Ed.D.University of Houston
Associate Professor, Psychology. (1967)
- Donald B. Morlan, Ph.D.Purdue University
Assistant Professor, Speech and Theater Arts and Education. (1969)
- John E. P. Mullally, M.A.Middlebury College
Assistant Professor, Foreign Languages. (1968)
- Byron E. Munson, Ph.D.University of Illinois
Professor, Sociology-Anthropology.* (1967)
- Ahmad Murad, Ph.D.University of Wisconsin
Professor, Economics. (1963)

- David H. Murphy, M.S.Indiana State University
Instructor, Botany and Zoology and Education. (1968)
- Louise Murray, Ph.D.Northwestern University
Professor, English. (1951)
- Jack Murry, Ed.M.University of Illinois
Assistant Professor, Business Education and Secretarial Studies. (1965)
- Jagdish L. Nanda, Ph.D.Indiana University
Associate Professor, Mathematics. (1964)
- Sat P. Narang, M.S.L.S.University of Wisconsin
Instructor, Library. (1969)
- Shirley W. Neal, M.A. University of Illinois
Instructor, English. (1968)
- Allen R. Neff, M.A.The Ohio State University
Assistant Professor, English. (1967)
- Herbert P. Neitzel, M.A.Montana State University
Instructor, Art. (1964)
- Lawrence Nichols, Ph.D.Duke University
Associate Professor, History. (1962)
- James F. Nicholson, B.S.Ed.Eastern Illinois University
Faculty Assistant, Life Sciences. (Part-Time) (1968)
- Thomas H. Nickels, M.S.Purdue University
Assistant Professor, Economics. (1968)
- Henry C. Nilsen, M.S. University of Illinois
Instructor, Zoology. (1967)
- Janet Norberg, Ph.D.The University of Iowa
Professor, Speech. (1963)
- Harold D. Nordin, M.A.Northern Illinois University
Instructor, Economics. (1967)
- Maynard O'Brien, Ed.D.University of Illinois
Professor, Physical Education for Men.* (1946)
- Marilyn S. Oglesby, M.S. in Ed.Eastern Illinois University
Substitute Instructor, Management. (Part-Time) (1969)
- Geraldina Ortiz-Muniz, Ph.D.Florida State University
Associate Professor, Foreign Languages (1962)
- Maria M. Ovcharenko, Ph.D.Charles University
Professor, Foreign Languages. (1964)
- Paul D. Overton, Ed.D.Colorado State College
Associate Professor, Educational Psychology and Guidance. (1962)
- Barbara L. Owens, M.S. in Ed.Eastern Illinois University
Assistant Professor, Home Economics and Education. (Part-Time) (1969)
- Ronald Paap, A.M.Colorado State College
Assistant Professor, Physical Education for Men (1963)
- Raymond F. Padovan, M.S.Southern Illinois University
Assistant Professor, Physical Education for Men. (1966)
- Francis W. Palmer, Ph.D.The University of Iowa
Professor, English. (1945)
- James E. Palmer, Ph.D.University of Missouri
Associate Professor, Geography-Geology. (1969)
- James Patterson, Jr., M.A.California State College
Assistant Professor, Art. (1969)
- J. Robert Pence, Ed.D.University of Illinois
Professor, Music Education.* (1951)
- Stuart L. Penn, Ph.D.Yale University
Professor, Philosophy.* (1960)
- Harry E. Peterka, Ph.D.University of Kansas
Professor, Zoology. (1947)
- John C. Peterson, Ph.D.The Ohio State University
Assistant Professor, Mathematics. (1969)

- LeRoy Peterson, Ph.D.The University of Iowa
Professor, Faculty of Education. (1967)
- Nicholas C. Petridis, Ph.D.University of Chicago
Associate Professor, Mathematics. (1966)
- Charles E. Pettypool, M.A.The Ohio State University
Assistant Professor, Mathematics. (1957)
- Gerald Pierson, M.S. in Ed.Eastern Illinois University
Assistant Professor, History and Social Sciences and Education. (1963)
- Evelyn O. Pinther, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Laboratory School. (1969)
- Harold O. Pinther, M.S.University of Wisconsin
Assistant Professor, Physical Education for Men. (1954)
- Raymond A. Plath, Ph.D.University of Wisconsin
Professor, Economics. (1946)
- Frances M. Pollard, Ph.D.Western Reserve University
Associate Professor, Library. (1963)
- Sheryl S. Popkin, M.A.Columbia University
Instructor, Physical Education for Women. (1969)
- Dalias A. Price, Ph.D.University of Wisconsin
Professor, Geography and Geology.* (1958)
- Van D. Psimitis, M.S.Southern Illinois University
Instructor, Management. (On sabbatical leave, 1969-70) (1964)
- Ruth S. Queary, M.S. in Ed.Eastern Illinois University
Assistant Professor, Mathematics. (1961)
- James R. Quivey, M.A.Bowling Green State University
Assistant Professor, English. (1969)
- Anola E. Radtke, M.M.Indiana University
Assistant Professor, Laboratory School. (1964)
- Mushfequr Rahman, Ph.D.McGill University
Associate Professor, Mathematics. (1967)
- Jack C. Rang, M.A.Aquinas College
Assistant Professor, Theater Arts. (1969)
- Paladugu V. Rao, M.S.L.S.University of Illinois
Assistant Professor, Library (1968)
- James E. Rauch, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Laboratory School. (1969)
- Hugh C. Rawls, Ph.D.University of Alabama
Professor, Zoology. (1956)
- Mary Jo Read, Ph.D.University of Wisconsin
Professor, Geography and Geology. (1965)
- John J. Rearden, Ph.D.Oklahoma State University
Associate Professor, Psychology. (1968)
- Rosemary Reece, M.S.Ed.University of Missouri
Assistant Professor, Laboratory School. (1968)
- Sharon K. Reed, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Botany. (Part-Time) (1969)
- Ivan L. Reilly, A.M.University of Illinois
Substitute Assistant Professor, Mathematics. (1969)
- James J. Reynolds, D.Ed.,Indiana University
Assistant Professor, Faculty of Education. (1969)
- Paul J. Reynolds, Jr., M.B.A.Bowling Green State University
Substitute Instructor, Management. (1969)
- Jack J. Richardson, Ph.D.Southern Illinois University
Professor, Health Education.* (1965)
- R. Jean Richardson, Ph.D.Texas Woman's University
Associate Professor, Physical Education for Women. (1969)
- Rachael G. Richardson, M.S. in Ed.Eastern Illinois University
Assistant Professor, English. (1963)
- Bill T. Ridgeway, Ph.D.University of Missouri
Associate Professor, Zoology. (1966)

- Harland A. Riebe, Ed.D.University of Colorado
Professor, Health Education. (1950)
- Garland T. Riegel, Ph.D.University of Illinois
Professor, Zoology.* (1948)
- Helen J. Riley, M.S. in Ed.Illinois State University
Assistant Professor, Physical Education for Women. (1965)
- Lawrence A. Ringenberg, Ph.D.The Ohio State University
Professor, Mathematics. (1947)
- William G. Riordan, Ph.D.Western Reserve University
Professor, Physical Education for Men. (1964)
- John L. Roberts, Ph.D.The University of Iowa
Associate Professor, Management. (1965)
- James Robertson, D.Ed.University of Illinois
Professor, Music and Education. (1956)
- Kathryn W. Robertson, M.S. in Ed.Eastern Illinois University
Instructor, English. (1965)
- E. Ann Roderick, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Library. (Part-Time) (1966)
- Donald L. Rogers, M.S.Syracuse University
Assistant Professor, Laboratory School. (On leave, 1969-70) (1963)
- Richard E. Rogers, Ph.D.Indiana University
Assistant Professor, English. (1969)
- Geza de Rohan-Csermak, D. Ethn.State University of Paris, France
Visiting Lecturer, Sociology-Anthropology. (1969)
- George W. Rommel, Ph.D.Northwestern University
Professor, English. (1953)
- Jerome J. Rooke, M.S.Northern Illinois University
Assistant Professor, Accounting. (1965)
- Paul F. Ruddell, M.S.Purdue University
Instructor, Physics. (1967)
- Al G. Rundle, M.A.University of Denver
Assistant Professor, Speech. (1963)
- Charles G. Russell, M.A.Southern Illinois University
Assistant Professor, Speech and Education. (1965)
- Joyce Rutledge, M.A.University of Arkansas
Instructor, Speech. (1969)
- Asa M. Ruyle, Ed.D.¹University of Missouri
Professor, Educational Psychology and Guidance. (1956)
- Betty G. Ruyle, M.A.East Carolina College
Substitute Instructor, Laboratory School. (1965)
- Wanda E. Ruyle, M.S. in Ed.University of Illinois
Instructor, Elementary and Junior High School Education. (1969)
- Brian A. Salchert, M.F.A.University of Iowa
Instructor, English. (1967)
- Robert E. Saltmarsh, Ed.D.Indiana University
Assistant Professor, Educational Psychology and Guidance. (1969)
- James Salyers, M.A.University of Missouri
Assistant Professor, History. (1969)
- George P. Sanders, M.M.Yale University
Assistant Professor, Keyboard Music. (1964)
- Karen J. Sanders, M.M.University of Wisconsin
Instructor, Keyboard Music (1966)
- Frank E. Schabel, B.A.State University of New York at Buffalo
Faculty Assistant, Laboratory School. (1967)
- John E. Schaefer, M.S.University of Wisconsin
Assistant Professor, Physical Education for Men. (1969)
- Lahron H. Schenke, Ed.D.Teachers College, Columbia University
Professor, Faculty of Education. (1963)
- Wolfgang T. Schlauch, Ph.D.University of Freiburg
Associate Professor, History. (1969)

¹ Resigned, November 30, 1969

- Frederick R. Schram, Ph.D.University of Chicago
Assistant Professor, Zoology. (On leave winter quarter, 1969-70) (1968)
- Colonel W. Scott, B.S.Marshall University (W.Va.)
Instructor, Physical Education for Men. (1968)
- Mary E. Scott, M.S. in L.S.Columbia University
Assistant Professor, Library. (1948)
- William W. Scott, Ph.D.University of Michigan
Professor, Botany.* (1968)
- Royal A. Senn, M.S. in Ed.Eastern Illinois University
Instructor, Laboratory School. (1969)
- Phillip M. Settle, M.F.A. University of Illinois
Assistant Professor, Laboratory School (1957)
- Carl N. Sexton, P.E.D.Indiana University
Associate Professor, Health Education. (1966)
- June Shanholtzer, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Mathematics. (Part-Time) (1969)
- Maurice D. Shepherd, M.A.T.Indiana University
Instructor, Chemistry and Physics and Education (1967)
- Karl J. Sherman, M.S.Southern Illinois University
Instructor, Accounting. (1969)
- Richard L. Shoen, B.S.St. Cloud State College
Faculty Assistant, Speech. (Part-Time) (1969)
- Paul Shriver, M.A.Bradley University
Instructor, Psychology. (1969)
- Robert V. Shuff, Ph.D.University of Minnesota
Professor, Administration and Supervision.* (1964)
- Mary B. Shukis, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Laboratory School. (Part-Time) (1969)
- Carl E. Shull, Ph.D.The Ohio State University
Professor, Art. (1947)
- Bryan Shuster, M.A.Northeast Missouri State Teachers College
Instructor, Industrial Arts and Technology. (1968)
- Henry Silverstein, M.L.S., M.A.New York University
Assistant Professor, English. (1965)
- Delbert R. Simon, D.M.A.University of Iowa
Associate Professor, Vocal Music. (1969)
- Lee H. Slorp, M.A.University of North Carolina
Substitute Instructor, Geography and Geology. (1969)
- Calvin N. Smith, Ph.D.Purdue University
Assistant Professor, Speech. (1965)
- Carolyn G. Smith, M.N.Western Reserve University
Assistant Professor, Health Education. (1952)
- Catherine A. Smith, D.Mus.Florida State University
Professor, Keyboard Music.* (1949)
- Forrest G. Smith, M.A.San Francisco State College
Assistant Professor, English. (1969)
- Malcolm D. Smith, M.B.A.Bowling Green State University
Instructor, Management. (1968)
- Norman D. Smith, Ph.D.Indiana University
Assistant Professor, Chemistry. (1965)
- P. Scott Smith, Ph.D.Cornell University
Professor, Physics. (1953)
- Richard L. Smith, Ph.D.University of Texas
Assistant Professor, Botany. (1965)
- Robert J. Smith, Ph.D.The University of Iowa
Professor, Chemistry. (1955)
- Ruby M. Smith, Ph.D.Purdue University
Professor, Home Economics. (1967)
- Robert C. Snyder, M.M.Indiana University
Assistant Professor, Instrumental Music. (1967)
- Robert E. Snyder, M.M.University of Colorado
Assistant Professor, Vocal Music. (1969)

- Margaret Soderberg, Ph.D.Washington University
Associate Professor, Political Science. (1962)
- Robert B. Sonderman, Ed.D.University of Missouri
Professor, Industrial Arts and Technology. (1956)
- Roland D. Spaniol, Ph.D.University of Iowa
Associate Professor, Management. (1960)
- John M. Speer, Ph.D.The Ohio State University
Assistant Professor, Botany. (1969)
- Kenneth J. Spencley, Ph.D.University of Illinois
Assistant Professor, English. (1966)
- Joan E. Squire, M.M.University of Illinois
Instructor, Keyboard Music. (1969)
- Henry A. Stackhouse, Ed.D.University of Missouri
Associate Professor, Psychology. (1960)
- Jane Stackhouse, B.S.University of Arkansas
Faculty Assistant, Library. (Part-Time) (1966)
- Sandra L. Staley, B.S.Ed.Eastern Illinois University
Instructor, Library, Laboratory School. (1968)
- Ray V. Stapp, D.Ed.Pennsylvania State University
Associate Professor, Art. (1964)
- Sidney R. Steele, Ph.D.The Ohio State University
Professor, Chemistry.* (1947)
- M. Lee Steinmetz, Ph.D.Brown University
Professor, English. (1959)
- Robert W. Sterling, M.S. in Ed.Eastern Illinois University
Assistant Professor, History. (1956)
- Verne Stockman, Ed.D.Michigan State University
Professor, Faculty of Education (1955)
- Frank C. Stokes, M.A.University of Illinois
Assistant Professor, English. (1969)
- Gayle G. Strader, M.Ed.University of Illinois
Instructor, Home Economics. (Part-Time) (1965)
- Clifford E. Strandberg, Ed.D.Texas A&M University
Associate Professor, Industrial Arts and Technology. (1965)
- Charles T. Strein, M.A.T.Purdue University
Assistant Professor, Economics. (1968)
- Marian H. Stromquist, Ed.D.University of Kansas
Associate Professor, Faculty of Education. (1966)
- Stanley A. Strosser, M.A.University of California
Instructor, Economics. (1969)
- Frieda S. M. Stute, Ph.D.University of Illinois
Associate Professor, Sociology-Anthropology. (1966)
- Virginia Su, M.A.University of Wisconsin
Assistant Professor, Library. (1969)
- Jack R. Sublette, M.A.University of Illinois
Instructor, English. (1968)
- Daniel R. Sullivan, M.L.S.University of Oregon
Instructor, Library (1968)
- Gerald Sullivan, Ph.D.University of Minnesota
Associate Professor, Theater Arts. (1969)
- Robert N. Sullivan, M.A.Murray State College
Instructor, Business Education and Secretarial Studies.
(On sabbatical leave 1969-70) (1964)
- Francis E. Summers, M.S. in Ed.Southern Illinois University
Instructor, Elementary and Junior High School Education. (1965)
- L. Donald Sundheim, M.A.University of Minnesota
Instructor, Foreign Languages. (1968)
- Carl L. Swisher, Ph.D.Northwestern University
Assistant Professor, Geography and Geology. (1969)
- Charles Switzer, Ph.D.Michigan State University
Associate Professor, English. (1966)

- Donald Swope, M.S.Columbia University
Assistant Professor, Library. (1964)
- Mary Ruth Swope, Ed.D.Columbia University
Professor, Home Economics. (1962)
- P. Rex Syndergaard, Ph.D.St. Louis University
Professor, History.* (1956)
- B. Joseph Szerenyi, D.Pol.S.Elizabeth University
Professor, Library. (1967)
- Henry A. Taitt, M.S.University of Delaware
Assistant Professor, Physics. (1965)
- Nancy P. Taitt, M.A.University of Delaware
Instructor, Mathematics. (Part-Time) (1969)
- Bethel Tame, A.B.Northwest Nazarene College
Faculty Assistant, Speech. (1968)
- Ellwood R. Tame, Ph.D.University of Denver
Professor, Speech. (1965)
- Virginia Tate, M.Ed.University of Missouri
Assistant Professor, Laboratory School. (1952)
- Carlos R. Taylor, Ed.D.Florida State University
Associate Professor, Faculty of Education. (1968)
- Frank S. Taylor, Ph.D.Boston University
Assistant Professor, Philosophy. (1965)
- Dean A. Teel, Ed.D.Texas A&M University
Associate Professor, Industrial Technology. (1967)
- Virginia J. Tefft, Ed.D.The University of New Mexico
Associate Professor, Physical Education for Women. (1969)
- Francis L. Teller, M.A.Teachers College, Columbia University
Assistant Professor, Physical Education for Men. (1963)
- James E. Thayer, M.A.Indiana University
Assistant Professor, Sociology-Anthropology. (On leave, 1969-70) (1968)
- Larry Thompson, M.A.Oklahoma State University
Instructor, English. (1969)
- Lea M. Thompson, M.A.Teachers College of Columbia University
Instructor, Speech Pathology and Audiology. (1968)
- Daniel E. Thornburgh, M.A.The University of Iowa
Assistant Professor, English. (1959)
- Laurence C. Thorsen, Ph.D.University of Illinois
Assistant Professor, Political Science (1968)
- Wayne L. Thurman, Ph.D.Purdue University
Professor, Speech Pathology and Audiology.* (1953)
- Robert C. Timblin, M.A.University of Illinois
Assistant Professor, Sociology-Anthropology. (1960)
- Donald F. Tingley, Ph.D.University of Illinois
Professor, History. (1953)
- Jeanne C. Tingley, B.Ed.Eastern Illinois University
Faculty Assistant, Physical Education for Women. (1961)
- Wilma D. Tipsword, M.S.Ed.Eastern Illinois University
Faculty Assistant, Library. (1968)
- Donald C. Tracy, M.M.University of Michigan
Instructor, Instrumental Music. (1968)
- Lynn E. Trank, Ph.D.The Ohio State University
Professor, Art. (1952)
- George H. Triplett, M.S.Oklahoma State University
Assistant Professor, Laboratory School. (1968)
- Charles Tucker, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Chemistry. (1955)
- Mary C. Turner, M.A.West Virginia University
Instructor, Laboratory School. (1969)
- David E. Turney, M.B.A.University of Illinois
Instructor, Management. (1969) (On leave, spring quarter 1970)

- Donna C. Tuveson, B.S.University of Minnesota
Faculty Assistant, Laboratory School. (Part-Time) (1969)
- Marie N. Tyceer, Ph.D.The Ohio State University
Professor, English. (1961)
- Helen VanDeventer, M.S. in EdEastern Illinois University
Assistant Professor, Foreign Languages and Education. (1960)
- Edward J. Van Meier, M.S. in Ed.Western Illinois University
Instructor, Elementary and Junior High School Education. (1969)
- Charles R. Vaughan, M.S. in Ed.Eastern Illinois University
Instructor, Physical Education for Men. (1965)
- Peter M. Vivona, M.A.The Ohio State University
Assistant Professor, Instrumental Music. (1967)
- Gustav M. Vogel, StaatsexamenUniversity of Munich
Assistant Professor, Foreign Languages. (1967)
- Leyla Waddell, B.S.Ed.Eastern Illinois University
Faculty Assistant, Library. (Part-Time) (1967)
- Robert C. Waddell, Ph.D.Iowa State College
Professor, Physics. (1948)
- Willis O. Waltman, M.S.Indiana State University
Executive Assistant, Instructional Materials, Laboratory School. (1969)
- Paul L. Ward, Ph.D.The Ohio State University
Associate Professor, Educational Psychology and Guidance. (1967)
- Ben P. Watkins, M.A.Louisiana State University
Assistant Professor, Art. (On sabbatical leave, spring and summer
quarters, 1970) (1964)
- Mary Lou Watkins, B.S.College of St. Scholastica
Faculty Assistant, Home Economics. (1969)
- Charles W. Watson, M.A.Western Kentucky State College
Instructor, Industrial Arts and Technology. (1965)
- Shirley A. Weasel, B.S.Southern Illinois University
Faculty Assistant, Home Economics. (1968)
- Robert W. Weidner, Ph.D.University of Rochester
Professor, Music Theory, History and Literature (1965)
- Terry M. Weidner, Ph.D.The Ohio State University
Assistant Professor, Botany. (1964)
- Nancy Weiler, M.S.Purdue University
Instructor, Speech Pathology and Audiology. (1969)
- William A. Weiler, Ph.D.Purdue University
Assistant Professor, Botany. (1969)
- George S. Westcott, Ph.D.The University of Iowa
Professor, Instrumental Music. (1949)
- Edwin A. Whalin, Jr., Ph.D.University of Illinois
Associate Professor, Physics. (1966)
- Robert V. Wharton, Ph.D.Columbia University
Professor, English. (1956)
- Bruce C. Wheatley, Ph.D.University of Denver
Assistant Professor, Speech. (1966)
- Joan F. White, Ph.D.Bryn Mawr University
Assistant Professor, Zoology. (On leave, winter quarter, 1969-70) (1968)
- Richard A. White, M.S.Southern Illinois University
Assistant Professor, Elementary and Jr. High School Education. (1969)
- Robert D. White, B.S. Ed.Eastern Illinois University
Substitute Faculty Assistant, Laboratory School. (1968)
- Robert F. White, Ph.D.University of Pennsylvania
Professor, English.* (1960)
- Wesley Whiteside, Ph.D.Florida State University
Associate Professor, Botany. (1960)
- L. Stephen Whitley, Ph.D.Purdue University
Associate Professor, Zoology. (1963)

- Roger L. Whitlow, M.S.Illinois State University
Assistant Professor, English. (1967)
- James A. Whittington, Jr., B.A.Louisiana State University
Assistant Professor, Sociology-Anthropology. (1969)
- Clarence B. Wible, M.Litt.University of Pittsburgh
Assistant Professor, English. (1967)
- Rebecca S. Wild, Ph.D.University of Michigan
Associate Professor, English. (1966)
- Carl E. Wilen, M.F.A.University of Illinois
Instructor, Art. (1965)
- Roger G. Wiley, M.A.Louisiana State University
Assistant Professor, Speech. (1964)
- Wanda L. Wiley, M.A.Louisiana State University
Instructor, English. (1967)
- Larry J. Williams, M.A.University of Oregon
Assistant Professor, Mathematics. (On sabbatical leave, 1969-70) (1964)
- Ned Williams, Ph.D.Columbia University
Professor, Management. (1969)
- Gilbert E. Wilson, Ph.D.Southern Illinois University
Associate Professor, Health Education. (1962)
- William K. Wilson, M.S.Indiana State University
Assistant Professor, English. (1966)
- Robert C. Wiseman, Ed.D.Indiana University
Assistant Professor, Faculty of Education. (1958)
- Verna D. Wittrock, Ph.D.University of Illinois
Associate Professor, English. (1966)
- Karen L. Womack, M.S.Indiana University
Instructor, Physical Education for Women. (1968)
- Leonard C. Wood, Ph.D.University of Pennsylvania
Associate Professor, History. (1960)
- William G. Wood, Ph.D.University of Illinois
Professor, Sociology-Anthropology. (1938)
- M. Thomas Woodall, Ph.D.The University of Iowa
Associate Professor, Physical Education for Men. (1965)
- Marian Wozencraft, Ph.D.Western Reserve University
Professor, Faculty of Education. (1969)
- David P. Wright, B.S. in Ed.Eastern Illinois University
Faculty Assistant, Accounting. (Part-Time) (1969)
- Wayne E. Wyler, M.S.Brigham Young University
Assistant Professor, Accounting. (1965)
- Harriet E. Yingling, Ed.D.New York University
Professor, Physical Education for Women.* (1968)
- Marina Su-Chin Yu, M.A.Texas Woman's University
Assistant Professor, Physical Education for Women. (1966)
- Robert Zabka, Ph.D.Northwestern University
Associate Professor, Faculty of Education. (1964)
- William R. Zbinden, M.S.Ed.University of Illinois
Assistant Professor, Faculty of Education. (1969)
- Lorene E. Ziegler, Ed.D.Columbia University
Professor, Faculty of Education. (1947)
- Endre Zongor, M.A.Western Michigan University
Assistant Professor, Library. (1968)
- Gary L. Zwicky, D. Mus.A.University of Illinois
Assistant Professor, Keyboard Music. (1966)



I. GENERAL INFORMATION

FUNCTION

Since the time of its founding Eastern Illinois University has developed a comprehensive and stimulating curriculum which offers an education in the liberal arts and sciences and in professional areas. The primary aim of the University's program is to provide excellent instruction and an educational environment which will produce broadly educated, responsible citizens who are prepared to serve and to lead in a free society.

RATING

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Council on Education and the American Association of Colleges for Teacher Education.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County Airport. The city has a population of 13,600.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established the Eastern Illinois State Normal School.

In response to changing demands, Eastern Illinois Normal School became, successively, Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the power of conferring degrees was granted to the institution by the General Assembly. Courses leading to the Bachelor of Education degree were announced in 1920. In 1944 the degree was changed to Bachelor of Science in Education.

Courses leading to the Master of Science in Education degree were announced in 1951; the first master's degrees were conferred July 31, 1952. The master's degree was recognized by the North Central Association of Colleges and Secondary Schools in March, 1953.

In 1954, the Teachers College Board authorized curricula leading to Bachelor of Arts and Bachelor of Science degrees, without preparation for teaching. The first such degree was conferred in June, 1955.

In 1962, the Teachers College Board approved the establishment of curricula leading to the Master of Arts and Master of Science degrees. The first Master of Arts degree was conferred in May, 1963. In the same year, the Teachers College Board approved the establishment of curricula leading to the Bachelor of Science in Business degree. The first such degree was conferred in August, 1964.

In 1964, the Teachers College Board approved the establishment of curricula leading to the Certificate of Advanced Study, which was changed to the Specialist in Education degree in 1965.

In 1965, the Board of Governors (formerly Teachers College Board) approved the establishment of curricula leading to the Bachelor of Science in Industrial Technology degree and the Bachelor of Science in Home Economics degree.

In 1968, the Board of Governors approved the establishment of curricula leading to the degrees Bachelor of Science in Recreation, Master of Business Administration, Bachelor of Music, and Specialist in College Teaching (Mathematics).

BUILDINGS AND GROUNDS

THE CAMPUS

The grounds cover an area of three hundred and sixteen acres.

BURGNER TEN ACRES

A plot of wooded land in Coles County was deeded to the university in 1955 by Mrs. Helen Burgner Douglas of Mattoon in memory of her parents. The site is used for nature study.

ROCKY BRANCH AREA

Through the generosity of Nature Conservancy and an anonymous donor, a tract of 126 acres approximately 26 miles southeast of Charleston was given to Eastern Illinois University Foundation early in 1967. The area is used mainly for study and research by the students and staff in the Division of Life Sciences.

LIVINGSTON C. LORD ADMINISTRATION BUILDING (OLD MAIN)

The main building houses administrative offices; classrooms for the Departments of Psychology and Mathematics; and the Paul Sargent Art Gallery. It is named for the university's first president. It was completed in 1899 as the university's first structure.

PEMBERTON HALL

This structure was enlarged in 1962 to accommodate 201 women. It was erected in 1909 as the university's first residence hall. It also houses the Textbook Library.

FRANCIS G. BLAIR HALL

This building is now occupied by the School of Business, the Audio-Visual Center, and the Data Processing Center. It is named for the first director of the training school.

STUDENT SERVICES BUILDING

This building was remodeled in 1968 and currently houses the offices of the Dean of Student Personnel Services, the Dean of Men, Dean of Women, Assistant Dean of Men, and the Assistant Dean of Women. It also houses the Office of Admissions, Central Stores and Duplicating Services.

FLORENCE McAFEE WOMEN'S GYMNASIUM

Formerly Lantz Gymnasium, this building was renamed for the late Dr. McAfee, head of the women's physical education program from 1935 until her retirement in 1962. The building is used exclusively for women's physical education.

SCIENCE BUILDING

This building contains classrooms and laboratories for the Departments of Chemistry, Geography and Geology, and Physics. It was completed in 1939 and remodeled in 1964.

LIFE SCIENCE BUILDING

Housed in this building are the Departments of Botany and Zoology. Associated with the Life Science Building is a complex of greenhouses. The major wing of the building was constructed in 1963, with the Annex added the following year.

THE MARY J. BOOTH LIBRARY

The library is named for Dr. Mary J. Booth, librarian from 1904 to 1945. It was opened in 1950 and is located in the center of the campus. Construction of an addition was completed in 1968.

LINCOLN HALL, DOUGLAS HALL, AND STEVENSON TOWER

Lincoln and Douglas residence halls were opened in September, 1952. Recently completed is the Adlai E. Stevenson Memorial Tower addition which increased the capacity of the complex to approximately 750.

SOUTH HOUSE

South House is a ranch-type structure used for home management as a part of the home economics curriculum.

ROBERT G. BUZZARD LABORATORY SCHOOL

The campus laboratory school for kindergarten through grade nine was completed in 1958. It is named for the university's second president.

UNIVERSITY UNION

This building contains a cafeteria, the Panther Lair snack shop, a ballroom, lounges, recreation facilities, meeting rooms, and offices. It was completed in 1957. A substantial addition was completed in 1967.

FORD, McKINNEY, AND WELLER HALLS

These three residence halls house a total of 454 women. They are named for former members of the university faculty. The structures were completed in 1958.

UNIVERSITY APARTMENTS

Living facilities for married students are provided in 154 apartment units. They are located on Terrace Lane at the south edge of the campus.

FINE ARTS CENTER

This building houses the School of Music, the Department of Theatre Arts and the Department of Art. It contains a "little theatre," numerous practice and rehearsal rooms for music and studios and laboratories.

ANDREWS HALL

This residence hall houses 480 women. It is named for a former faculty member, Dr. Franklyn Andrews, and was opened in 1964.

LAWSON HALL

Completed in 1967, Lawson Hall is a "mirror image" of the nine-story Andrews Hall. It was named for Dr. Elizabeth K. Lawson, Dean of Women from 1939 until her retirement in 1966.

CLINICAL SERVICES BUILDING

This structure houses the Health Service; Reading, Speech and Hearing Clinics; Counseling and Testing Center; and the Department of Speech Pathology and Audiology. It was opened in September, 1964.

BUZZARD HOUSE

The former home of Eastern's second president houses the Assistant Dean of Student Personnel Services and the Director of Financial Aids.

CHARLES H. COLEMAN CLASSROOM BUILDING

This building is named for Dr. Charles H. Coleman, eminent Lincoln scholar and long-time member of the Department of History. The building houses the Departments of Speech, Foreign Languages, English, History, Sociology-Anthropology, Economics, Political Science, and Philosophy.

BOOTH HOUSE

This building furnishes offices for the Civil Service Personnel Director, Director of Residence Hall Food Services, the Director of Housing, the Assistant Director of Housing, and the Housing Administrator. The building is a bequest from the late Miss Mary Josephine Booth.

THOMAS HALL

This residence hall was completed in 1963. It houses 438 men and is named for the late Professor S. E. Thomas, long a member of the Social Science faculty.

PHYSICAL PLANT SERVICES BUILDING

This building is located in the far northwest corner of the campus and houses shops for personnel responsible for maintenance and operation of the physical plant.

TAYLOR HALL

This residence hall for 590 men opened in the fall of 1966. It is named for the late Dr. Edson H. Taylor, long a member of the Mathematics Department.

CHARLES P. LANTZ HEALTH, PHYSICAL EDUCATION AND RECREATION BUILDING

Named for the late Dr. Charles P. Lantz, coach and athletic director for 41 years, the building opened in 1966. Features include gymnasium, swimming pool, field house, archery, rifle and pistol ranges, and classrooms. The Departments of Physical Education and Health Education are located in the building.

APPLIED ARTS-EDUCATION CENTER

This building houses the School of Home Economics, the School of Industrial Arts and Technology, and the Faculty of Education. It was completed in 1967.

GREGG TRIAD

The Gregg Triad was completed in 1966 as a dining hall to serve the occupants of Ford, McKinney, and Weller Halls. It is named for Mr. Raymond Gregg, Business Manager at the University from 1934 to 1963.

TELEPHONE AND SECURITY BUILDING

Offices of the Security staff and the equipment and personnel necessary for the operation of the university telephone system are housed in this building, completed in 1966.

ORGANIZATION OF THE UNIVERSITY**THE UNIVERSITY POLICY ON NON-DISCRIMINATION**

The University is committed to a policy of non-discrimination with respect to race, religion, and national origin in all facets of University life and administration.

ORGANIZATION

Eastern Illinois University is one of four state universities and colleges under the general jurisdiction of the Board of Governors of State Colleges and Universities. The internal organization at Eastern consists of two major divisions—instruction and administration.

Included within the instruction division are the instructional services (Library, Audio-Visual Center) and the various instructional units. Major instructional units are the Graduate School, College of Letters and Science, School of Elementary and Junior High School Teaching, School of Business, School of Music, School of Health, Physical Education and Recreation, School of Home Economics, School of Industrial Arts and Technology, and the Faculty for Professional Education. A Division of Latin American Studies administers interdisciplinary programs in that field leading to both teaching and non-teaching degrees. A Division of Pre-Medical Studies and a Division of Pre-Engineering Studies administer programs in their respective fields.

The administration division includes student academic services, student personnel services and business services.

FIELDS OF STUDY

BACHELOR OF ARTS

Majors:

Art	Music
Botany	Philosophy
Chemistry	Physical Education
Economics	Physics
English	Political Science
French	Psychology
Geography	Sociology
Geology	Spanish
German	Speech
History	Speech Pathology and Audiology
Latin	Theatre Arts
Latin American Studies	Zoology
Mathematics	

BACHELOR OF MUSIC

Options:

- Performance: (String or Wind; Keyboard; or Vocal)
- Music Theory and Composition
- Music History and Literature

BACHELOR OF SCIENCE

Majors:

Art	Philosophy
Botany	Physical Education
Chemistry	Physics
Economics	Political Science
English	Psychology
French	Sociology
Geography	Spanish
Geology	Speech
German	Speech Pathology and Audiology
History	Theatre Arts
Latin	Zoology
Mathematics	

BACHELOR OF SCIENCE IN BUSINESS*Majors:*

Accounting

Finance

Marketing

Management

Secretarial

*Minor—Institutional Food Management***BACHELOR OF SCIENCE IN EDUCATION***Majors:*

Art

Botany

Business

Chemistry

Elementary Education

Elementary Education—Special
EducationElementary Education—Speech
Correction

English

French

Geography

German

History

Home Economics

Industrial Arts

Junior High School Education

Latin

Latin American Studies

Manual Arts Therapy

Mathematics

Music

Physical Education, Men

Physical Education, Women

Physics

Social Science

Spanish

Speech

Speech Pathology and Audiology

Theatre Arts

Zoology

Minors:

Art

Biological Science

Botany

Business

Chemistry

English

French

Geography

German

Health Education

History

Home Economics

Industrial Arts

Journalism

Latin

Library Science

Mathematics

Music

Physical Education

Physics

Psychology

Russian

Safety and Driver Education

Social Science

Spanish

Speech

Theatre Arts

Zoology

BACHELOR OF SCIENCE IN HOME ECONOMICS*Majors:*

Dietetics

Family Services

Home Economics in Business

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY*Options:*

Electricity and Electronics
 Light Building Construction
 Metalwork

BACHELOR OF SCIENCE IN RECREATION**MASTER OF ARTS***Majors:*

Economics	Music
English	Political Science
French	Sociology
Geography	Spanish
History	Speech
Mathematics	

MASTER OF BUSINESS ADMINISTRATION**MASTER OF SCIENCE***Majors:*

Botany	Physics
Chemistry	Speech Pathology and Audiology
Library Science	Zoology
Physical Education	

MASTER OF SCIENCE IN EDUCATION*Areas of Concentration:*

Art	History
Audio-Visual Education	Home Economics
Biological Sciences	Industrial Arts
Business Education	Mathematics
Educational Administration	Music
Elementary Education	Physical Education
English	Physical Sciences
Foreign Languages	Social Science
Geography	Speech
Guidance and Counseling	Speech Pathology and Audiology

*** SPECIALIST IN EDUCATION**

Major Area: Educational Administration

* Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

DIVISION OF THE YEAR

The university year, September 1 through August 31, consists of four quarters. Three of the quarters, each twelve weeks in length, constitute the traditional academic year, September 1 through May 31. The fourth quarter of ten weeks is offered during the summer months. A graduate term of eight weeks is in session concurrently with the last eight weeks of the summer quarter.

ALUMNI ORGANIZATIONS

Recognizing the contribution a body of truly interested alumni can make to the development of an institution of higher learning, the University has encouraged the growth of various alumni organizations. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

THE ALUMNI ASSOCIATION

The Eastern Alumni Association, established in 1905, is composed of persons who have either received degrees from this institution or completed a minimum of one quarter's work here.

Officers of the Alumni Association for 1969-70 are Paul Foreman, Charleston, president; Donald Castles, Mattoon, vice-president; and Mrs. Dorothy Greathouse, Mattoon, secretary-treasurer.

The Executive Committee for the Association is composed of the officers and twelve other members elected for three-year terms. Committee members are Winston Brown, Edwardsville; Mrs. Nancy Jamnik, Joliet; Dale Downs, Charleston; Howard Allison, Charleston; James O. Beavers, Taylorville; Mrs. Pat Pitol, Collinsville; Dave Fields, Danville; Walt Brantley, Springfield; Ben Franklin, Belleville; Irl Schuyler, Windsor; Lewis Linder, Charleston; and Bob Miller, Springfield.

Alumni have formed chapters of the Eastern Illinois University Alumni Association in several counties of Illinois. These clubs usually meet from one to four times each year with programs designed to keep graduates and former students in touch with each other and with the University.

In 1947 the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2.00 for one year, \$4.00 for two years, and \$5.00 for three years.

THE EASTERN ILLINOIS UNIVERSITY FOUNDATION

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

Membership of the Foundation consists of 100 persons, including alumni and friends of the University. Honorary members without vote are the President of the University, the President of the Board of Governors

of State Colleges and Universities, the President of the Alumni Association, the Vice President for Business Services, and the Director of Alumni Services.

The Board of Directors of the Foundation consists of nine persons elected from the general membership. The President of the University, the President of the Board of Governors, and the President of the Alumni Association are ex officio members of the Board of Directors.

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II. STUDENT LIFE, ACTIVITIES AND SERVICES

LIVING ACCOMMODATIONS

UNIVERSITY POLICY

Single students under the age of twenty-one, other than seniors, are required to live in University-registered housing except when living at home or with relatives or when special permission has been granted in writing by the Director of Housing. University-registered housing does not include apartments or trailers. It is understood that when a student contracts for accommodations in a residence hall, University apartment, or registered housing, he agrees to comply with the rules and regulations governing those living units as well as the rules and regulations for all University students. Falsification of a student's campus address may subject the student to disciplinary action and possible suspension.

Residence halls are closed during the Thanksgiving, Christmas, and Easter recesses, as well as between quarters.

The University is committed to a policy of non-discrimination in housing with respect to race, religion, and national origin. All University-owned housing, as well as privately-owned housing which is University registered, must be operated in compliance with this policy.

ON CAMPUS HOUSING

Residence Halls. Application for a room in the University residence halls may be made to the Director of Housing prior to acceptance for admission to the University. Application for admission to the University does not constitute an application for housing. Students are encouraged to apply for housing at an early date. Accommodations are available as follows:

WOMEN	
Andrews	480
Douglas Hall	194
Ford Hall	152
Lawson Hall	480
Lincoln Hall	194
McKinney Hall	150
Pemberton Hall	201
Weller Hall	152

MEN	
Taylor Hall	590
Thomas Hall	438
Stevenson Tower	360

Further information relative to cost of room and board, the annual contract, and the housing security deposit may be found in Section III.

Married Student Housing. Application blanks for the University Apartments may be secured from the Director of Married Student Housing.

The University Apartments comprise 154 units for married students, 100 two-room apartments and 54 one-and-one-half room apartments. The 54 one-and-one-half room apartments are furnished with sofabed, chair, dinette set, corner table, kitchen efficiency units, drapes, and other items of equipment. Thirty-six of the two-room apartments have a double bed,

a chest of drawers, and a nightstand in addition to the same type of furniture as is in the one-and-one-half room apartments. The remaining 64 apartments are larger. Each has a minimum of furnishings consisting of stove, refrigerator, dinette set, arm chair, double bed, and drapes. Space is allowed for students to use their own furnishings such as chest of drawers, closet curtains, sofa, floor and table lamps, TV set, and portable air conditioner.

Electricity, heat, hot water, television antenna outlets, and washing machines are furnished by the University. To be eligible for an apartment a student must be married, living with his family, and enrolled in the University.

A housing security deposit of \$25 is required of all tenants housed in University-owned apartments. When occupancy ceases and all property damages, if any, are satisfactorily accounted for, the deposit is refunded in whole or in part.

OFF-CAMPUS HOUSING

An off-campus registered house is a home in the community which has been approved as meeting the minimum health and safety standards set by the University. A list of registered houses for single students is maintained in the Housing Office. The student is responsible for making arrangements with the householder for a room in the community; however, the University requires a signed agreement between the householder and student.

Married students may secure a list of off-campus apartments and houses at the Office of the Director of Married Student Housing.

GENERAL SERVICES

COUNSELING

The Counseling Center is staffed by professional counselors and counseling psychologists who assist students with adjustment problems which may interfere with their deriving maximum benefit from their university experiences. Psychological services related to educational development, vocational choice, and personal and social adjustment are available without cost to all students.

EMPLOYMENT

The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the community. Student employment is contingent upon maintenance of satisfactory academic standing.

INSURANCE

By action of the Board of Governors, each full-time student is assessed a fee for group health and accident insurance administered by the University

to supplement services performed by the University Health Service. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available for all four quarters of the year. Students attending spring quarter who do not intend to be enrolled during the summer but who wish summer coverage must apply for this insurance sometime during the spring quarter. Summer quarter insurance is in force until the following registration day.

The group policy provides for all reasonable hospital expense, 80% of surgical or medical fees, and 80% major medical expense up to \$10,000 for any one accident or period of illness.

Information concerning the insurance may be obtained in the Office of Financial Aids.

MEDICAL

The Health Service is located in the Clinical Services Building. It renders limited medical and surgical care, supervises the periodic physical examinations, and has general oversight of health conditions of the University community.

Services provided by the Health Service are covered by student activity fees.

PLACEMENT

Registration or re-registration with the Placement Office is a requirement for graduation for all degree candidates. The Placement Office seeks to help graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information about the applicants. It also maintains a follow-up service, including a program of visits and reports from employers and persons placed. Placement services are free to students who qualify.

Teacher Placement Services are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior standing. Graduates who hold a degree other than B.S. in Ed. are eligible for teacher placement services if requirements for a regular teacher's certificate are met. *Graduate Students* may register for placement if they have attended Eastern Illinois University for one quarter and have earned 16 quarter hours of graduate credit towards a master's degree. This credit may include graduate extension courses offered off campus. *Alumni* whose institutional records are clear may re-register by bringing their credentials up to date and paying a fee of \$2.

Industrial and Business Placement Services are available to students who have attained senior standing. The Placement Office furnishes the candidate's credentials to prospective employers and offers other services fundamental to their selection of employees.

TESTING

Testing services are available to University students. Aptitude and intelligence tests as well as interest and personality tests are administered

without charge. Consultative services are also available to area school personnel desiring to establish testing programs.

The Testing Service operates a 1230 IBM test scoring machine with an attached 534 IBM card punch. Area schools may arrange for the scoring of standardized tests for a nominal charge. For detailed information contact the Coordinator of Testing.

INSTRUCTIONAL SERVICE

AUDIO-VISUAL SERVICES

The Audio-Visual Center operates as an educational service for faculty and students. Audio-visual teaching materials such as films, filmstrips, and recordings are available both from a small on-campus library and from rental sources. Orders for rental films usually take three weeks. Limited preview services are available. Services are available for producing slides, transparencies, photographic copies, and other types of materials for classroom instruction. Consultative service is offered to university faculty, prospective teachers, and to schools in the area.

BOOK RENTAL AND SALES

Basic textbooks for courses are rented to students through the Textbook Library. Book rent is paid at the time of registration.

Rented textbooks must be returned in satisfactory condition by noon of the day following the last day of the quarter. Damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc. A fine of \$1 per book is imposed if the student's textbook record is not clear by the close of the quarter.

LIBRARY SERVICES

Booth Library. The Booth Library is the general library of the University and contains a book stock of over 200,000 cataloged volumes besides government documents, microtexts, maps, and pamphlets chosen to support the educational effort of the University. A sizeable addition to the original building was opened in 1968. All books in the library are on open shelves except those that are rare.

In the central area of the first floor are located the Circulation Department and the General Card Catalog. The Reference Department also is located near the center of the first floor. Here the students find the answer to many of their problems. There are periodicals, indexes and abstracts available as well as a collection of reference books. Special facilities such as seminar, group study, conference, and faculty study rooms and equipment for reading microtext materials are also provided on this floor. The current issues and the bound volumes of periodicals are kept on the second floor on open stacks, arranged alphabetically by title.

The library serves as a depository for selected publications of the United States Government and for maps issued by the U.S. Army Map Service. Over 5,000 recordings for leisure-time enjoyment of music are available in the Music Room. A publisher's exhibit of textbooks for elementary and secondary schools is also provided. The Reserve Room is located in the northwest corner on the main floor. Library materials for specific courses are placed in the Reserve Room at the request of faculty members.

Laboratory School Library. This library, a part of the general University library system, houses a collection of materials suitable for the elementary and junior high school levels. Besides serving the needs of the Laboratory School, it plays an essential role in the preparation of school librarians. Prospective teachers are urged to familiarize themselves with the books and periodicals in the collection and with its method of operation.

READING IMPROVEMENT

Each quarter, the Reading Clinic offers non-credit courses in speed reading designed to improve speed, comprehension, and general study habits. Classes meet at various times during the day so that each student may choose a section which meets at a convenient hour. Courses are free to regularly enrolled students. Materials used in the courses are furnished without charge. Application for admission should be made early in the quarter at the Reading Clinic on the second floor of the Clinical Services Building.

In addition to conducting its University reading program, the clinic accepts some children, usually from elementary schools in the area, for corrective work in reading. Junior, senior, and graduate students taking advanced work in reading obtain practical experience by working with these children under supervision.

SPEECH AND HEARING DIAGNOSIS AND CORRECTION

The Speech and Hearing Clinic is housed on the second floor of the Clinical Services Building. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvement of speech and language disorders. The services are available without charge to university students, Laboratory School pupils, and children and adults in east central Illinois. Junior, senior, and graduate students in courses of speech and hearing obtain required clinical practice by working with these cases under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

STUDENT-FACULTY BOARDS

Student members of the student-faculty boards are appointed by the Student Senate; faculty members are appointed by the Faculty Senate. The vice president of the Student Body and the Dean, Student Personnel Services, or his representative, are ex officio members of all boards. The boards are as follows: Apportionment, Artist Series, Lecture Series, Men's Athletic, Publications, Radio, and Safety and Traffic.

ACTIVITY FEES

Most activities under the supervision of student-faculty boards receive their support from activity fees charged all students. The allocation of funds from the activity fees is made by the Apportionment Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

ARTISTS SERIES

Each year the University offers as cultural entertainment individuals and groups of national reputation in programs of music, theatre, and dance.

A student-faculty Artists Series Board arranges and administers the series, with due regard for the preferences and needs of students. In most instances students gain admission by presenting a properly validated ID card; for other programs, a reduced price is offered. Faculty members and area residents may purchase individual or series tickets.

LECTURE SERIES

The University offers a series of several lectures each year by well-qualified speakers on topics of general interest. The lecturers are selected by a board composed of faculty and students. Various departments also engage lecturers in fields of specialized interest. No admission fee is charged.

UNIVERSITY UNION ACTIVITIES

The University Union houses a cafeteria, snack bar, game rooms, bowling alley, ballroom, lounges, and offices for the Director, Assistant Director, Director of the University Union Food Services, and the Student Senate. A committee of the Student Activities Board, assisted by the Union Director, plans activities for the students such as dances, receptions, recitals, billiards, bridge, chess contests, and instruction.

Organizations wishing to use University facilities may schedule the facilities at the University Union office.

FORENSICS

Through the Department of Speech, students of undergraduate standing are offered the opportunity to participate in intercollegiate tournament experience in extemporaneous speaking, oratory, debate, and discussion.

Members of the forensic teams engage in competition with speakers from the major colleges and universities. Opportunity is also provided for members of the teams to appear on radio and television programs throughout the Illinois-Indiana area and before civic clubs and high school assemblies.

Affiliation is maintained with several regional and national forensic organizations including: Illinois Intercollegiate Debate League, Illinois Intercollegiate Oratorical Association, Interstate Oratorical Association; American Forensic Association; and Pi Kappa Delta, the national honorary forensic fraternity.

INTRAMURAL SPEECH ACTIVITIES

Each year the Department of Speech offers any undergraduate student the opportunity to participate in an Intramural Speech Contest. This activity is designed for critical analysis and further student development in meaningful speech events.

STUDENT SPEAKER BUREAU

A Student Speaker Bureau is coordinated through the Department of Speech. Students may register with the bureau, requesting they be listed in a publication sent to service clubs and schools in the area. The bureau affords the student the opportunity to appear in actual speaking situations to improve their communication ability.

THEATRE

The Department of Theatre Arts sponsors a variety of activities. A full-length play and a full-length oral interpretation program are presented each quarter as public performances. Each week a student-directed workshop program is produced; this activity includes short plays, skits, readings and demonstrations.

Any student in the University is eligible to participate in the activities of the department. Practical experience in all phases of theatre can be obtained.

The department conducts its activities in a theatre which seats 420 people.

RADIO

Several activities provide an introduction to the broadcast media. Each week students help produce radio programs that are broadcast by stations in Illinois. The campus radio station, WELH, operated entirely by students, broadcasts more than 50 hours per week. A Radio Club meets weekly to produce special radio programs, such as hootenannies, promotional announcements, etc., and to introduce the student to the skills and theories of broadcasting. The activities mentioned above are open to all full-time students regardless of major. Interested students may contact WELH in the Speech Department.

MUSIC

Music organizations provide opportunities for musical growth through activities which in turn contribute to the life of the University. Instrumental organizations include a marching band, a concert band, a pep band, symphonic winds, symphonette and an orchestra. Other special vocal and instrumental ensembles afford additional opportunities for students to study and perform.

THE PAUL TURNER SARGENT ART GALLERY

The Paul Turner Sargent Art Gallery in Old Main brings to the campus exhibitions selected from various areas of the visual arts. These

shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles—a collection is usually on display for a three-week period. Special lectures and films related to the exhibitions are scheduled from time to time. This activity provides important original works for study in art classes.

PUBLICATIONS

Student publications are a semi-weekly newspaper, the *Eastern News*; a literary magazine, the *Vehicle*; and a yearbook, the *Warbler*. The newspaper is published by a student staff with a faculty advisor. Staff positions on the *News* are open to all qualified students.

The *Warbler* is issued annually as a pictorial record of the University year. A student editorial staff, supervised by a faculty advisor, is responsible for the publication. All qualified students are eligible for the staff.

The *Vehicle* is published three times annually. Literary material is solicited from all students.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern News*, the *Vehicle*, and the *Warbler*.

WOMEN'S ATHLETICS

The Department of Physical Education for Women sponsors the Women's Recreation Association which is open to all women enrolled as regular students. Any student becomes a member of the *Women's Recreation Association* by participating in one activity. Any active member is eligible to vote, to attend the annual banquet, to travel to other colleges for competition, and to participate in the sports-days held at the University. There are eighteen activities during the year; archery, badminton, baitcasting, basketball, bowling, canoeing, fencing, folk and square dancing, golf, gymnastics, modern dance, officiating, softball, swimming, speedball, track and field, tennis, and volleyball. Basketball, bowling, and volleyball are organized on an intramural basis, with teams from residence halls, sororities and private homes competing. The modern dance concert and the synchronized swimming show are special events in which any student may perform. Two awards are given by the Women's Recreation Association to students who participate actively in the athletic program for women.

INTRAMURAL ATHLETICS

The Department of Physical Education for Men offers an intramural program with opportunities for participation in recreative physical activities. Participation is voluntary and open to all students. The objective of this program is to make recreation and physical development available to every student.

INTERCOLLEGIATE ATHLETICS

The program of intercollegiate athletics is dedicated to a belief that athletic competition promotes individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence

to democratic ideals to the end that personal growth and character will result. In addition, the acquisition of certain professional techniques and skills particularly for men who plan to coach are objectives of the athletic program. In furtherance of these purposes, the University is a member of the Interstate Intercollegiate Athletic Conference, the National Association for Intercollegiate Athletics, and the National Collegiate Athletic Association.

The University program of intercollegiate athletics includes football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, swimming, and soccer. The University adheres to the intercollegiate athletics policies of the North Central Association of Colleges and Secondary Schools.

STUDENT ORGANIZATIONS

STUDENT SENATE

The Student Senate is a representative body for all students. The officers and members are elected by popular vote.

The Senate is concerned with matters pertaining to student welfare, student activities, and student participation in university planning and administration. It takes responsibility for such events as Parents Weekend, and campus elections.

DEPARTMENTAL CLUBS

Accounting, Botany, Elementary and Jr. High Men, Economics, French, Geology, German, History, Home Economics, Industrial Arts, Latin, Mathematics, Men's Physical Education, Music Educators National Conference, Pre-Medical Association, Russian, Sociology-Anthropology, Spanish, Student Affiliate of National Art Education Association, Speech Pathology, Student Affiliate Section of the American Chemical Society, Student Affiliate of the Society for the Advancement of Management, Student Chapter of the American Marketing Association, Student Chapter of National Music Educators Conference, Student Section of the American Institute of Physics, University Council for the United Nations, Women's Physical Education, Zoology Seminar.

RELIGIOUS ORGANIZATIONS

Baptist Student Union, Canterbury Club, Christian Science Fellowship, Deseret Club, Fellowship of Christian Athletes, Inter-varsity Christian Fellowship, Lutheran Student Movement, Newman Community, Roger Williams Fellowship, Student Religious Council, United Campus Ministry, Universal Unitarians, Wesley Foundation.

ATHLETIC ORGANIZATIONS

Varsity Club, Women's Athletic Association.

RESIDENCE HALL COUNCILS AND ASSOCIATION

Each resident is a participating member of the residence hall government and is represented on the hall council by the corridor chairman. The hall councils are established in the framework of student self-government.

The Women's Residence Hall Association, comprised of elected or appointed representatives from each hall handles matters common to all women's residence halls.

SERVICE ORGANIZATIONS

Alpha Phi Omega, Circle K Club.

SPECIAL GROUPS

Association for Childhood Education, Association of International Students, Cheerleaders, Concert Choir, Eastern Veterans Association, Interdepartmental Forum, Marching Band, Mixed Chorus, Pink Panthers, Student Education Association, Student Wives' Organization, Young Democrats, Young Republicans.

CONSULTATIVE COUNCILS

All-University consultative councils: Administration, Instruction, Student Personnel Services.

Consultative councils replacing student-faculty boards: Health and Hospitalization, Music Activities, Speech Activities, Theatre Arts, Women's Recreation Association.

INTERFRATERNITY COUNCIL

The Interfraternity Council, composed of three members from each fraternity, aids in establishing policies relating to the fraternity system. It cooperates with the Panhellenic Council in planning the annual Greek Week program. The following fraternities are represented:

Alpha Kappa Lambda, Rho Chapter
Alpha Phi Alpha, Eastern Illinois University Colony
Beta Sigma Psi, Mu Chapter
Delta Chi, Eastern Illinois University Chapter
Delta Sigma Phi, Delta Psi Chapter
Phi Sigma Epsilon, Delta Chapter
Pi Kappa Alpha, Zeta Gamma Chapter
Sigma Pi, Beta Gamma Chapter
Sigma Tau Gamma, Alpha Alpha Chapter
Tau Kappa Epsilon, Gamma Omega Chapter

PANHellenic COUNCIL

The Panhellenic Council is composed of the presidents of the sororities and two elected representatives from each sorority. It deals with problems confronting the sororities, establishes rules for rushing, cooperates with the Interfraternity Council in planning all-Greek affairs on campus, and awards a cup each year to the sorority maintaining the highest academic standing for the preceding year. The following sororities are represented:

Alpha Gamma Delta, Beta Iota Chapter
Alpha Sigma Alpha, Gamma Omega Chapter

Delta Zeta, Gamma Nu Chapter
Kappa Delta, Delta Beta Chapter
Sigma Kappa, Gamma Mu Chapter
Sigma Sigma Sigma, Alpha Psi Chapter

ASSOCIATION OF COLLEGE HONOR SOCIETY MEMBERS

Delta Mu Delta, Tau Chapter: Business Administration
Delta Sigma Rho, Broadcasting: Speech
Phi Alpha Theta, Epsilon Mu Chapter: History
Pi Omega Pi, Alpha Chi Chapter: Business Education
Pi Sigma Alpha, Delta Psi Chapter: Political Science
Sigma Delta Pi, Zeta Eta Chapter: Spanish

OTHER HONORARY AND PROFESSIONAL SOCIETIES AND FRATERNITIES

Alpha Beta Alpha: Library Science
Alpha Epsilon Rho: Broadcasting (Speech)
Beta Beta Beta, Gamma Theta Chapter: Biological Science
Delta Psi Kappa, Beta Xi Chapter: Women's Physical Education
Delta Sigma Pi, Epsilon Omega Chapter: Business Administration
Epsilon Pi Tau, Iota Chapter: Industrial Arts
Gamma Theta Upsilon, Rho Chapter: Geography
Kappa Delta Pi, Beta Psi Chapter: Education
Kappa Mu Epsilon, Illinois Beta Chapter: Mathematics
Kappa Omicron Phi, Alpha Theta Chapter: Home Economics
Phi Alpha Eta, Women's Scholastic Honorary.
Phi Beta Lambda, Iota Omicron Chapter: Business and Business Education
Phi Delta Kappa, Delta Omega Chapter: Education
Phi Epsilon Kappa, Beta Zeta Chapter: Men's Physical Education
Phi Mu Alpha Sinfonia, Xi Upsilon Chapter: School of Music
Pi Delta Epsilon, Journalism
Pi Kappa Delta, Illinois Sigma Chapter: Forensics (Speech)
Psi Chi: Psychology
Sigma Alpha Iota, Epsilon Eta Chapter: School of Music
Sigma Delta Psi, Epsilon Sigma Chapter: Men's Athletics
Sigma Eta Lambda, Speech
Sigma Tau Delta, Upsilon Gamma Chapter: English

AUTOMOBILE REGISTRATION AND CONTROL

By definition, a motor vehicle, in addition to an automobile, shall include such conveyances as motor bikes, motor scooters, and motorcycles.

FRESHMAN-SOPHOMORE MOTOR VEHICLE REGULATION

No undergraduate student who has completed less than 90 quarter hours shall possess, park, or operate a motor vehicle on any University street, parking lot, or property beginning with registration day of each

quarter and ending with the official date of closing each quarter. The regulation will not be enforced against students on the day they move into the halls nor the day they leave for vacations or quarter breaks. An exception to this regulation may be made for a freshman or sophomore student who is physically handicapped, or who resides with his or her parents in Charleston Township, or who can demonstrate a critical need for a motor vehicle because of employment or other circumstance.

A request for an exception to the above regulation should be addressed to Dean Donald A. Kluge, Chairman, Freshman Motor Vehicle Regulation Committee, Eastern Illinois University.

REGISTRATION OF VEHICLES

It is the responsibility of each student, employee, and faculty member who drives any motor vehicle on or around the campus to register the vehicle in the Security Office. Registration is free.

PARKING PERMITS

Application for a parking permit should be made at the Telephone and Security Building. A committee of faculty and students reviews all requests and makes assignments based upon such factors as distance, employment, and physical disability. The charge for the permit is \$10, \$5, or \$2 depending on lot assignment. A permit may be purchased on a quarterly basis.

UNIVERSITY TRAFFIC REGULATIONS

All state and community laws apply on campus. University parking regulations are in effect until 5:00 p.m. of the last day of examinations of each quarter. University holidays are excepted. Other regulations will be issued periodically by the Security Office.

TRAFFIC PENALTIES

- 1. A violator of the freshman-sophomore motor-vehicle regulation will be subject to a fine of \$50 for the first and second offenses and will be automatically suspended from the university for the third offense.
- 2. Failure to report any change which would affect parking privileges\$5.00
- 3. Falsification of registration\$10.00
and referral to university officials for disciplinary action.
- 4. Parking Violations: 1st Offense\$ 1.00
2nd Offense\$ 5.00
3rd Offense\$10.00
4th OffenseWill result
in the loss of campus parking privileges for
the remainder of the academic year plus an
added penalty of \$10.00 and referral to
University officials for disciplinary action.

5. Moving Violations: 1st Offense\$ 5.00
 2nd Offense\$10.00
 3rd Offense\$15.00
 4th OffenseWill result
 in the loss of campus parking privileges for
 the remainder of the academic year. A vio-
 lation of this measure will result in referral
 to University officials for disciplinary action.
6. Offenses shall be considered cumulative for any and all violations cited above for the period of the automobile registration.

TOWING

Motor vehicles parked in a University lot without a valid permit may be towed away without notice at the operator's expense.

BICYCLE REGISTRATION AND CONTROL

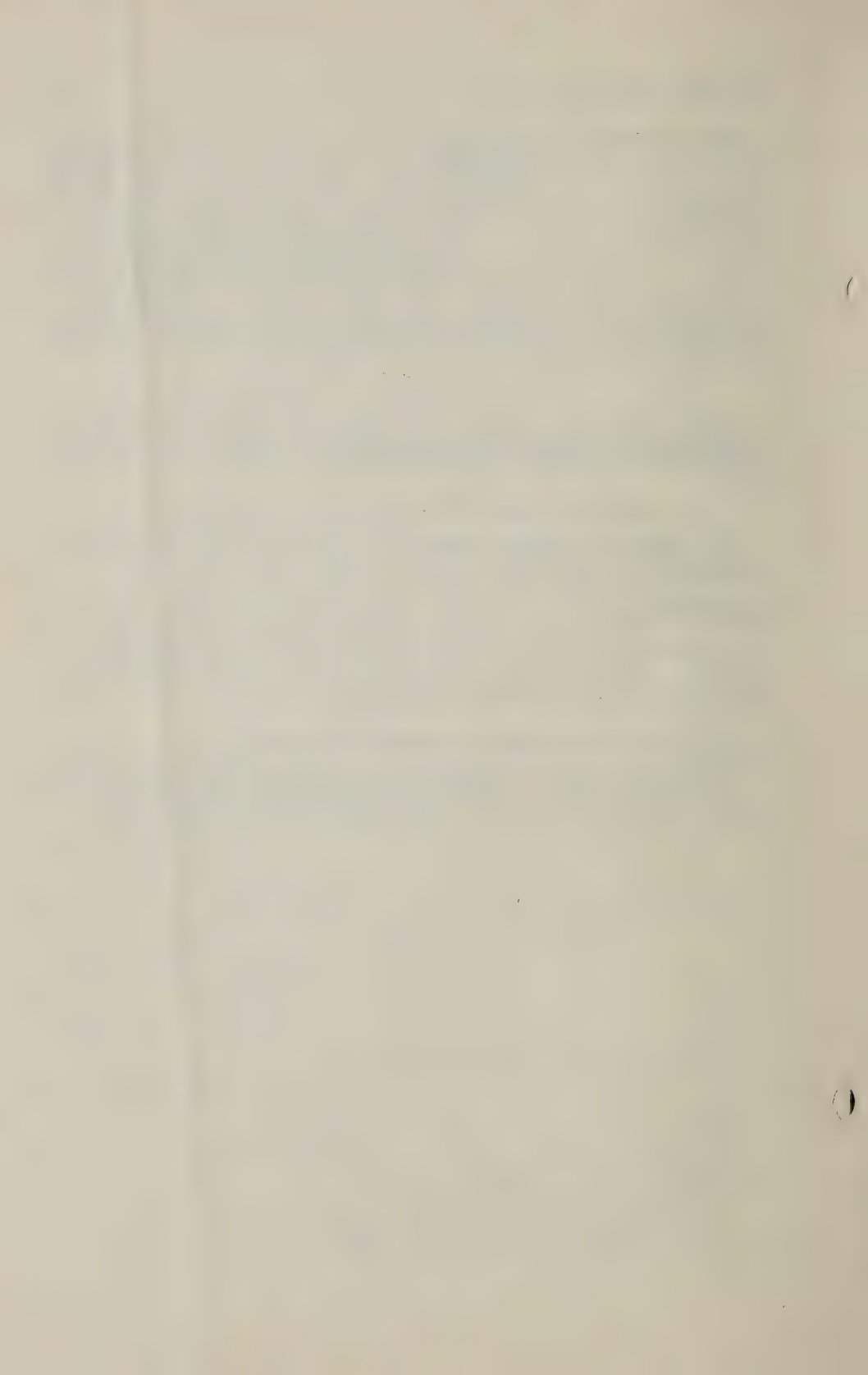
By definition, a bicycle shall mean any two-wheeled vehicle which is propelled by human power.

REGISTRATION

It is the responsibility of each student, employee, and faculty member operating a bicycle on the campus to register the bicycle in the Security Office. Registration and parking permits are free.

PENALTIES FOR VIOLATION AND NONCOMPLIANCE

Failure to comply with registration requirements—\$1; Failure to use bicycle in conformity with operational provisions—\$1; Violation of parking restrictions—\$1; Fourth offense—possible referral for disciplinary action.



III. STUDENT EXPENSES AND FINANCIAL AID EXPENSES

APPLICATION FEE

A non-refundable charge of \$15 must accompany an application for admission as an undergraduate.

QUARTERLY FEES*

All fees are subject to change at the end of any year by action of the Board of Governors of State Colleges and Universities. Fees for quarters listed below must be paid on or before registration day of each quarter. (A student who takes any combination of ten-week and eight-week courses will be regarded as a full-time quarter student for purposes of determining his fees.)

For Residents of Illinois—Undergraduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	<i>Summer Qtr. 1970</i>	<i>Fall Quarter</i>	<i>Winter Quarter</i>	<i>Spring Quarter</i>	<i>Summer Qtr. 1971</i>
Registration Fee	\$ 10.00	\$100.00	\$ 75.00	\$ 60.00	\$ 10.00
Service Fee	51.75*	53.75*	53.75*	53.75*	53.75*
Total	<u>\$ 61.75</u>	<u>\$153.75</u>	<u>\$128.75</u>	<u>\$113.75</u>	<u>\$ 63.75</u>

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

<i>Fee (Per Quarter Hour)</i>	<i>Summer Qtr. 1970</i>	<i>Fall Quarter</i>	<i>Winter Quarter</i>	<i>Spring Quarter</i>	<i>Summer Qtr. 1971</i>
Registration Fee	\$.90	\$ 8.50	\$6.25	\$5.00	\$.90
Service Fee	2.85**	3.00**	3.00**	3.00**	3.00**
Total	<u>\$3.75</u>	<u>\$11.50</u>	<u>\$9.25</u>	<u>\$8.00</u>	<u>\$3.90</u>

For Residents of Illinois—Graduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	
Registration Fee	\$ 65.00
Service Fee	53.75*
Total	<u>\$118.75</u>

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

*Student Activity Fee—\$12; Bond Revenue Building Fee—\$19; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4; Economically Deprived Student Fee—\$2 (beginning Fall 1970).

**Bond Revenue Building Fee—\$1.60; Textbook Rental Fee—\$.90; Grants-in-Aid Fee—\$.35; Economically Deprived Student Fee—\$.15 (beginning Fall 1970).

A part-time student may purchase a student activity ticket for the regular price of \$12. He is not permitted to purchase health and accident insurance.

	<i>Per Quarter Hour</i>
Registration Fee	\$ 5.50
Service Fee	3.00**
Total	<u>\$ 8.50</u>

For Out-of-State Students

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

	<i>Summer 1970</i>	<i>Beginning Fall 1970</i>
Registration Fee	\$200.00	\$234.00
Service Fee	51.75*	53.75*
Total	<u>\$251.75</u>	<u>\$287.75</u>

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

	<i>Summer 1970 (Per Qtr. Hr.)</i>	<i>Beginning Fall 1970 (Per Qtr. Hr.)</i>
Registration Fee	\$ 16.50	\$ 19.50
Service Fee	2.85**	3.00**
Total	<u>\$ 19.35</u>	<u>\$ 22.50</u>

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state registration fee unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a permanent place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered residents of Illinois only if they have established a bona fide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a woman student either under or over the age of 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

SUMMER GRADUATE TERM FEES — 1970

Fees described below are payable on or before registration day for the eight-week summer graduate term:

For Residents of Illinois

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees:

*Student Activity Fee—\$12; Bond Revenue Building Fee—\$19; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4; Economically Deprived Student Fee—\$2 (beginning Fall 1970).

**Bond Revenue Building Fee—\$1.60; Textbook Rental Fee—\$.90; Grants-in-Aid Fee—\$.35; Economically Deprived Student Fee—\$.15 (beginning Fall 1970).

A part-time student may purchase a student activity ticket for the regular price of \$12. He is not permitted to purchase health and accident insurance.

Registration Fee	\$ 49.00
Service Fee	38.75*
Total	<u>\$ 87.75</u>

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

	<i>Per Quarter Hour</i>
Registration Fee	\$ 6.15
Service Fee	3.10**
Total	<u>\$ 9.25</u>

For Out-of-State Students (See earlier definition of out-of-state student)

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees:

Registration Fee	\$150.00
Service Fee	38.75*
Total	<u>\$188.75</u>

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

	<i>Per Quarter Hour</i>
Registration Fee	\$ 18.75
Service Fee	3.10**
Total	<u>\$ 21.85</u>

EXTENSION FEES

Extension fees are \$10.00 per quarter hour with an additional charge of \$3.00 per course for textbook rental. When textbooks cannot be supplied by the University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

MISCELLANEOUS FEES AND CHARGES

Late Registration Fee. An extra fee of \$15 is charged to a student who registers after the registration dates shown in the catalog or who fails to pay all fees on registration day. This fee is non-refundable. No registrations are accepted after the sixth calendar day following the first day of classes.

Residual Testing Fee. Students applying for admission must furnish test scores from the American College Testing Program (ACT). Students failing to provide such test scores will be required to take the test residually on campus. The testing fee is \$10.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office. The fee of \$15 for graduate degree candidates and \$10 for undergraduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation for a particular quarter is registration day of that quarter.

Transcript Fee. The University will furnish one transcript of the academic record of a student when requested to do so. A fee of \$1 will be charged for each transcript issued after the first one. An additional 50c fee will be charged for each extra copy of the transcript prepared at the same time. Transcripts will be issued only for students whose university records are clear.

*Student Activity Fee—\$9; Bond Revenue Building Fee—\$14.25; Textbook Rental Fee—\$7.50; Health Insurance Fee—\$5; Grants-in-Aid Fee—\$3.

**Bond Revenue Building Fee—\$1.80; Textbook Rental Fee—\$.95; Grants-in-Aid Fee—\$.35.

General Library Service Fee. All library materials must be returned and records cleared by the end of each quarter. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations, and a service charge of not less than \$1 is added for failure to clear records at the end of the quarter. In addition, students who fail to clear library records are denied library privileges.

Textbook Library Fee. A fee of \$1 per book is charged if the student's record in the Textbook Library is not clear by noon following the last day of the quarter. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc.

Chemistry Breakage Ticket. A deposit of \$3 is required for a breakage fee in all laboratory courses in chemistry. Refund is made of the amount not used for actual breakage after the locker is checked out.

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the University Union. The cost per lock is \$2.45.

Charges for Materials. Fees are paid for materials used in certain courses in art and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses and elective projects in industrial arts courses numbered 323, 308, 409, and 447.

RESIDENCE HALL CHARGES

Housing Security Deposit. A housing security deposit of \$25 must accompany an application for accommodation in the University residence halls. The deposit will be held by the University as security for payment for any loss of or damage to University property and the non-fulfillment of the contract. The deposit will be refunded upon request according to the terms of the contract.

Board and Room Charges. During 1970-71, charge for board and room in University residence halls will be \$350 for the Fall and Winter Quarters and \$320 for the Spring Quarter, if paid in full in one payment, or \$2 more per quarter if paid in installments on dates set by the University. This payment includes a room telephone; Sunday evening meals and meals during vacation periods are not included.

Charges for board and room during the summer of 1970 are as follows:

Undergraduate Quarter, June 8 to August 17.....\$203.00

Graduate Term, June 22 to August 17.....\$162.00

For workshops, institutes, clinics, camps or conferences of less than eight or ten weeks the charge will be made at the weekly or daily rate of:

University groups\$2.55 per day...\$10.50 per week

Non-University groups\$3.00 per day...\$21.00 per week

Board will be provided by Union Food Service by contract.

With the exception of the summer quarter, it is understood that a student engages a room for the entire University academic year (September through May) unless he has an off-campus assignment (teaching or internship) or unless he completes the requirements for graduation before the end of the year. Waivers will be granted by the Director of Housing in these instances.

Most rooms are designed for double occupancy: Four- and six-person suites are available in the Adlai E. Stevenson Memorial Tower. Details concerning residence hall occupancy and installment payments are found in the

residence hall contract or are available from the Office of the Director of Housing.

The University reserves the right to increase residence hall rates, if necessary, at the beginning of an academic year with the understanding that at least sixty days notice will be given prior to the opening of the year in which the increase takes effect.

Late Payment Fee. A fee of \$5 is charged if a residence hall payment is not paid on the dates set by the University unless special permission is granted by the Director of Housing.

OFFICIAL RECEIPTS

Official receipts for fees must be preserved by the student during the quarter involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

REFUNDS

WITHDRAWAL

Regular. If a student withdraws from the University during a quarter by completing the procedure described in Section V and if the initiation and completion of the withdrawal is made through the Dean of Men or Dean of Women during the first ten calendar days following the first day of classes for the quarter, the Registration Fee will be refunded upon request. There will be no refund of the Service Fee. If the withdrawal is initiated at a later date, there is no refund of any fees. The official receipt must accompany the request for refund.

Summer Eight Week Graduate Term. During the eight-week graduate term the withdrawal must be initiated and completed during the first six calendar days following the first day of classes in order to have the Registration Fee refunded.

Military Duty. A student called for active duty or induction into the Armed Forces prior to the 36th calendar day following the first day of classes (excluding the Christmas break) will be given a refund of Registration Fee but not the Service Fee.

PRE-REGISTRATION

Non-Enrollment. If a student pre-registers and pays his fees prior to the regular registration date for the quarter but does not appear for classes, all fees will be refunded if notice has been given in writing to the Assistant Dean, Registration and Advisement, five calendar days prior to the announced day of registration. If such notice is not given within the prescribed period but is given during the first ten calendar days following the first day of classes for the quarter, only the Registration Fee will be refunded.

Change in Load. Upon request a student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days following the first day of classes will be refunded the difference between his Registration Fee and the course fee for those courses constituting his part-time load; there will be no refund of the Service Fee.

DENIED ADMISSION

If a student pre-registers and pays his fees prior to the regular registration date but is subsequently denied admission to the University, all fees will be refunded.

BOARD AND ROOM

There will be no refund of room rent except upon cancellation of the residence hall contract, in accordance with the terms thereof, because of withdrawal from the University for one of the following reasons: (1) after completion of the academic year with the intent of not returning to the hall and upon proper clearance through the Housing Office; (2) action by the University for academic reasons, including graduation; (3) health reasons as certified by the Director of Health Service to the Director of Housing; (4) verified emergency reasons as submitted in writing to and approved by the Housing Office, including call for active duty in or induction into the Armed Forces.

Room deposits are forfeited for residents who withdraw from the University prior to their contracts, which run for a full academic year (September through May). A student who withdraws from the University after the first full day of regularly scheduled classes will forfeit the entire quarter's room charge, providing the residence halls are not at normal capacity on the tenth calendar day following the first day of classes. No refunds will be made until all financial obligations to the University are cleared. Unused board fees will be refunded.

FINANCIAL AIDS

STATE SCHOLARSHIPS

Holders of state scholarships listed below are exempt from payment of the registration fee, activity fee, and graduation fee. They are required to pay the bond revenue building fee, textbook rental fee, health insurance fee, and grants-in-aid fee. They must also pay fees and charges for supplies and materials assessed in certain courses. Most holders of monetary scholarships and grants administered by the Illinois State Scholarship Commission are exempt from payment of the registration fees and all service fees. They, too, are obligated to pay fees assessed for certain courses and any charges for supplies and materials.

The holders of these scholarships must meet the admissions requirements of the University. The scholarship (with the exception of the Military Scholarship) is forfeited if the holder is not enrolled within five calendar days after the opening of the school term or if he withdraws from the University. Holders of these scholarships may be granted a leave of absence not to exceed two years because of illness, the necessity of earning funds to defray expenses while in school, or military duty. Application for leave of absence on a Military Scholarship must be made to the Director of Veterans Services. All other leave applications must be made to the Director of Financial Aids.

Full state scholarships are valid for four calendar years, thus permitting use of the scholarship for graduate study if students have accelerated their

undergraduate program by attending summer school. In some cases students are awarded the balance of partially used scholarships.

Military Scholarships must be registered with the Director of Veterans Services to be valid for use. All other state scholarships must be filed with the Office of Financial Aids to be valid.

Teacher Education Scholarships. In order to be eligible for this scholarship, a student must rank in the upper one-half of his graduating class and agree to two conditions: (1) to furnish proof to the Office of the Superintendent of Public Instruction that he is pursuing and continues to pursue a teacher education curriculum and (2) to teach two of the three years immediately following graduation or termination of enrollment in a teacher education program; this teaching must be in any recognized public, private, or parochial school in the State of Illinois. If a recipient of this scholarship defaults, it will be his obligation to repay the State the total amount waived while under the scholarship program and a 5% interest charge per year on this amount. The high school principal certifies to the County Superintendent of Schools each year before March 1 the name and address of each student entitled to receive this scholarship. The County Superintendent of Schools then certifies to the Superintendent of Public Instruction the names and addresses of students submitted by the high school principals. The scholarship is issued by the Superintendent of Public Instruction.

Other specialized teacher education scholarships are as follows: Junior College Graduate, issued by junior colleges to their graduates who continue their education; General Educational Development, issued by the County Superintendent of Schools to students who rank high in their G.E.D. qualifying test for a high school diploma; Special Education, issued by the County Superintendent of Schools to students enrolling or enrolled in a Special Education curriculum; Adult Education, initiated through the County Superintendent of Schools and issued by the State Superintendent of Public Instruction to adults 21 years or more of age who desire to complete work for an undergraduate degree in education. The special conditions governing Teacher Education Scholarships also apply to these specialized Teacher Education Scholarships.

Military Scholarship. Any person who served in the armed forces of the United States after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged, may be awarded a scholarship, provided he has the required period of service. A veteran discharged after August 11, 1967, must have a minimum of one year's active duty. If discharged prior to this date, he needs only an honorable separation from service. Application should be made by filing a photostatic copy of the discharge or separation papers with the Director of Veterans Services. This scholarship may be used concurrently with the GI Bill.

Once initiated, the Military Scholarship runs continuously for four years and automatically terminates at that time unless an extension up to two years is granted under special conditions.

General Assembly Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of whom shall receive a scholarship to the University of Illinois and the other a scholarship to any other state-supported university designated by the member. Application is made directly to the legislator who makes the appointment through the Office of the State Superintendent of Public Instruction.

County Scholarship. This scholarship award is made by the County Scholarship Committee of Illinois. High school seniors must indicate that they wish to enter competition for this award in their county at the time they take the American College Testing Examination.

Illinois State Scholarship Commission Scholarships and Grants. In general, the eligibility of an applicant is determined on the basis of (1) his high school academic record, (2) the results of a competitive examination to be conducted by the Commission at an appropriate time during each fiscal year, and (3) financial need. The scholarship is renewable by the Commission annually without further competitive examinations for a total of three academic years or until such earlier time as the student receives a degree normally obtained in four academic years. The grant is based on financial need only. For the monetary value of these awards, see section on State Scholarships. For more information, inquiries may be directed to: Illinois State Scholarship Commission, 730 Waukegan Road, Deerfield, Illinois, 60015.

UNIVERSITY AWARDS

Talented Student Awards. Established by the Board of Governors of State Colleges and Universities to encourage the development of unique student talents. Tuition (registration fees) is waived for students receiving the awards. The awards go primarily to incoming new students who give promise of unique talents in art, athletics, dramatics, forensics, music, broadcasting, and student publications. Nominations for the awards are made by department heads and faculty advisors.

Grants-in-Aid. Eastern offers in excess of 100 grants-in-aid annually to students who show promise or demonstrate a talent in fields which require public presentation of that talent. Among these fields are art, athletics, dramatics, debate, journalism, music, and women's physical education. Approved by the Board of Governors of State Colleges and Universities, the talent scholarship program is financed through a student grants-in-aid fee.

Foreign Student Scholarship. Established by the Board of Governors of State Colleges and Universities, the award is made to foreign students based on scholastic achievement, academic promise, personal character, and financial need. The registration fee and out-of-state fee are waived for a student receiving the scholarship. Selection of the recipients is made by the Foreign Student Scholarship Committee.

SPECIAL AWARDS

Achievement Fund Scholarship Award. Established in 1965 to provide financial assistance to outstanding students. The award presently goes each year to one or more students who have attained at least sophomore standing and who need at least one more year of study to receive a bachelor's degree. Selection of the recipient, including the determination of financial need, is made by the Financial Grants Committee.

Alexander Briggs Memorial Award. Established by Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the L. C. Lord Administration Building. The award is made annually to a business major who has completed at least one year of college work with not less than

a B average and who is selected by the faculty of the School of Business on the basis of outstanding personal character and interest in the field of business and business education.

Business Alumni Award. Established by the alumni of the School of Business. It is made annually to a junior business major whose personal character, scholastic achievement, and interest in the fields of business and education promise service of distinction in the field of business education. Selection is made by the faculty of the School of Business.

Charleston Achievement Award. A scholarship of \$150 made available annually by the Kiwanis and Rotary Clubs of the city. In order to qualify for the award, a student must be a graduate of Charleston High School, be classified as a junior, have a cumulative grade point average of 3.0 or better, have a record of better than average participation in activities, have leadership qualities, and an intention to graduate from Eastern.

Thomas R. Drury Scholarship. Established in memory of Thomas R. Drury, an alumnus of Eastern. The award is presented annually to a student admitted to Eastern's Graduate School and who plans to pursue a career in educational media. The selection committee is composed of representatives of the Faculty of Education, Audio-Visual Services, and the Illinois Audio-Visual Association.

DuPont-Dirksen Scholarships. Established by Mrs. Jessie Ball DuPont through the offices of the late Senator Everett McKinley Dirksen. Five awards valued at \$500 each were made in 1969 and five similar awards will be made in 1970. The awards are given to selected junior students who demonstrate a self-reliance sufficient to achieve academic excellence despite obstacles of one form or another. The awards will not be given after 1970.

G. B. Dudley Award. Established by Tilford Dudley in memory of his father who was closely associated with the University. The fund makes a minimum of \$200 available each spring for awards to outstanding students in the fundamental sciences: botany, chemistry, physics, and zoology. The recipients are chosen by the heads of these four departments.

Leo J. Dvorak Memorial Award. Established in memory of Dr. Leo J. Dvorak, late Director of the School of Music. The award is presented to a junior music major who shows promise of becoming an outstanding teacher in public school music. Selection of the recipient is made by the faculty of the School of Music.

Thomas A. Grud Scholarship. Established by the family and friends of the late Thomas A. Grud who was killed in Vietnam on Christmas Day, 1967. The award goes annually to a male student who is earning a portion of his college expenses but who is in need of additional financial assistance.

Ann Frommel Memorial Award. A scholarship for outstanding students in botany, zoology, and chemistry, established by Mr. and Mrs. Albert E. Frommel, Charleston, in memory of their daughter. The award is made to an outstanding student who has completed at least his freshman year of college work and has maintained at least a B average in all academic subjects.

Hugh M. Hefner Scholarship. Supported by the Hugh M. Hefner Fund. For economically disadvantaged students. Recipients will be selected by the

Director of Financial Aids from those students submitting all forms necessary for financial aid applications.

Hobart F. Heller Scholarship. Established in honor of Dr. Hobart F. Heller, Vice President for Instruction and a member of the Eastern faculty for 36 years, who retired in 1967. The award will go annually to a student who, by reason of scholarship, responsible character, sense of purpose, growth, and service to the University community during his first three years, gives promise of a life of distinguished service and leadership. Selection of the recipient is made by a committee headed by the Dean, Student Personnel Services.

Illinois Congress of Parents and Teachers Scholarships. The Illinois Congress of Parents and Teachers supplies funds each year for scholarships which are awarded to selected students. The qualifications for eligibility are high scholastic standing, good health, and the need of financial aid. The applicant must also signify intention to teach. Application for the scholarship is made to the Director of Financial Aids after a "Parents' Confidential Statement" has been submitted to the College Scholarship Services.

Bobbie King Memorial Scholarship. Established in 1966 by Mr. and Mrs. Karl King of Charleston, Illinois, in memory of their daughter. The award will go annually to a junior or senior demonstrating outstanding achievement in the study of foreign languages.

Martin Luther King, Jr., Scholarship. Established by the Eastern Illinois Chapter of the American Association of University Professors in memory of Dr. Martin Luther King, Jr. The award goes annually to one or more Eastern students who are "living examples of the ideals and values expressed by Martin Luther King."

Charles P. Lantz Scholarship. Established in memory of Dr. Charles P. Lantz, Director of Athletics at Eastern from 1911 to 1952. The award is made annually to one or more persons who will be seniors the following year, who have demonstrated outstanding athletic achievement, who have shown evidence of leadership qualities, and who have demonstrated above-average scholastic ability.

Livingston C. Lord Memorial Scholarship. Established by Alumni Association of the University in memory of Livingston C. Lord, who served as president, 1899-1933. It is the University's highest award for scholarship.

The scholarships are awarded annually at commencement to one or more junior or senior students. The student's character, scholarship, and skill in teaching must promise service of distinction in the field of education.

Isabel McKinney Scholarship. Established in memory of Isabel McKinney, head of Eastern's Department of English from 1922 to 1945. The award goes annually to a person who has demonstrated high scholastic achievement and has the qualifications to enroll in the English graduate program at Eastern. Selection of the recipients is made by the Scholarship Committee of the Department of English.

Winnie Davis Neely Memorial Award. Established by Sigma Tau Delta, national professional English fraternity, in memory of Winnie Davis Neely, a member of the English Department, 1934-1952. An award is made annually to the university student who submits the best manuscript in the literary contest sponsored by the student literary publication and Sigma Tau Delta.

Estelle Ruth O'Brien Memorial Mathematics Scholarship. Established in 1967 by Dr. Maynard O'Brien and his son in memory of their late wife and mother, Estelle Ruth O'Brien. Mrs. O'Brien was a mathematics teacher in the public schools. The award will go annually to a mathematics major enrolled at Eastern or to a high school graduate who has expressed in writing an intent to enroll as a mathematics major at Eastern. A committee of mathematics faculty will select the recipients.

Emma Reinhardt Award. Established in 1962 by members of Beta Psi Chapter of Kappa Delta Pi in recognition of the contributions of service, guidance, and leadership of Dr. Emma Reinhardt, counselor to the chapter for thirty-one years. The award is made annually to the highest ranking junior pursuing the degree of Bachelor of Science in Education.

Irvin L. Sparks Memorial Scholarship. Established in 1966 by friends and colleagues of the late Dr. Irvin L. Sparks, professor of physics at Eastern Illinois University. The award will be made each year to an incoming freshman student who plans to major in physics and who has an outstanding high school scholastic record in that field of study.

Paul Turner Sargent Scholarship Award. Established by the family and friends of the late Paul Turner Sargent, nationally known artist and a 1906 Eastern graduate. The award is made to an art major or minor who has completed at least eighty quarter hours of course credit.

William Craig Simmons Memorial Award. Established by Mrs. W. C. Simmons, Charleston, in memory of her husband. The award is made annually to a junior business major on the basis of outstanding personal character, scholastic achievement, and interest in the fields of business and business education. Selection is made by faculty members of the School of Business.

Kate Booker Stapp Scholarship. Available to women students in teaching curricula who are widows (or whose husbands are incapacitated) with at least one child under the age of eighteen. The fund was established in 1948 by a gift of \$400 from Miss Helen Stapp in honor of her mother. Applications are made to the Director of Financial Aids.

Ernest L. Stover Scholarship. Established in honor of Dr. Ernest L. Stover, former head of the Department of Botany. The award goes annually to a botany major of junior or senior classification who has demonstrated scholastic achievement and shows promise as a teacher or research person. Selection of the recipients is made by Department of Botany committee.

Edson H. Taylor Award. Established in honor of Dr. E. H. Taylor, professor of mathematics at Eastern from 1899 to 1945. It is awarded annually to a junior or senior who is majoring in mathematics. The recipient of this award is chosen by the faculty of the Mathematics Department on the basis of excellence of scholarship in mathematics.

Annie L. Weller Award. Established in memory of Miss Annie L. Weller, late Head of the Geography Department. The award is made annually to a graduating senior planning to pursue graduate study prior to a career in teaching. Eligible candidates must be majoring in the humanities, social sciences, or natural sciences and must have demonstrated superior scholarship ability.

Howard DeForest Widger Award. Granted annually by the Alumni Association to a senior English major selected by the faculty members of the

English Department. The award is given for outstanding personal character and scholastic achievement in the field of English.

LOANS

The Adelia Carothers Fund. This fund was established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during their junior and senior year. The interest rate is two per cent during enrollment. At termination of enrollment the rate increases to six per cent. The fund is administered by the Dean of Women.

Elementary and Junior High School Student Teaching Loan Fund. This loan fund was established with funds contributed by students of Eastern State High School during World War II. Loans up to \$100 may be made to students who need the funds during their student teaching quarter. No interest is charged when repayment is made within one year. Application must be made to the Director of the School of Elementary Junior High School Teaching.

Emergency Loan Fund. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety days. No interest will be charged. To be eligible, a student must be in residence at the University at least one quarter and be in good standing.

Illinois Congress of Parents and Teachers Loan Fund. In September of 1954 the Illinois Congress of Parents and Teachers established a loan fund of \$1,000. Loans from this fund on either a short or long-term basis may be secured by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within a year of termination of enrollment. Interest then begins at three per cent. Students should contact the office of Financial Aids for application forms.

Illinois Guaranteed Loan Program. The Illinois General Assembly has authorized an Illinois loan program to guarantee student loans made by commercial lenders.

An eligible student who has been accepted for enrollment in college may borrow from a minimum of \$300 to the maximum amounts stated below. There is no age restriction; a minor is eligible to enter into a loan contract and to assume the responsibility for his own indebtedness. Payment must begin no less than nine months after the student either graduates or ceases full-time study.

Maximum Loan Amounts

Freshman year	\$1,000
Sophomore year	1,500
Junior year	1,500
Senior year	1,500
First-year graduate study	1,500

Application forms and additional information about this program are available from participating lending institutions (banks, building and loan associations, and credit unions).

The Florence McAfee Loan Fund. Physical education majors and minors, alumnae, and staff established this fund in honor of Dr. Florence McAfee. Any woman student, either majoring or minoring in physical education, is eligible

to borrow from the fund. When need arises, students should contact a member of the Women's Physical Education staff.

National Defense Student Loan Fund. The National Defense Student Loan program was established by Congress in 1958. Eastern Illinois University has been accepted as a participant in the program. Loans will be provided students in accordance with federal recommendations and regulations.

To be eligible, the student must show a genuine need for the loan, he must be enrolled as a full-time student or half-time student, and he must meet the academic and social standards set by the University.

The amount of the loan will be determined by the University on the basis of availability of funds and the student's financial need. Application blanks should be obtained from the Director of Financial Aids.

The Russell Loan Fund. This fund was established by the family and friends of Mrs. W. L. Russell to provide loans for needy women students. The fund is administered by the Dean of Women.

University Loan Fund. To be eligible for a University Loan a student must be of at least sophomore standing with an academic average of at least C. The primary need for the loan should be to remain in school. Only full-time students are eligible.

No student may borrow more than \$300 in his sophomore year, \$300 in his junior year, or \$600 in his senior year; the total owed at any one time shall not exceed \$600. The interest rate is two per cent during enrollment. At termination of enrollment, the rate increases to six per cent.

The will of the late Dr. W. D. Morgan of Charleston gives to the Student Loan Fund the annual income from approximately \$6,000. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the University by the will of the late John L. Whisnand of Charleston a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount is in trust with the Charleston National Bank.

VETERANS BENEFITS

The Veterans Act of 1966, Public Law 358, provides educational benefits to veterans who have completed 181 days or more of federal active duty (six-month enlistees are not eligible) terminating with an honorable discharge on or after February 1, 1955. The law provides one-and-one-half months benefits per month of service up to eighteen months. A veteran with eighteen or more months of service will receive the maximum of thirty-six months. Minimum monthly benefits are \$130 for a full-time student.

Public Laws 815 and 634. Veterans with 30% or more disability are eligible for training under Public Law 815. War orphans may receive training under Public Law 634. Minimum monthly benefits are \$130 for full-time students.

Widows of veterans who died as a result of service and wives of totally disabled (service incurred) veterans are eligible for their husbands' educational benefits.

Applications are processed by the Director of Veteran's Services.

FEDERAL GRANTS

Federal grants, under the provisions of the Higher Education Act of 1965, are available to students from low-income families. The availability of funds dictates the number of students assisted. Application blanks for financial aid should be obtained from the Director of Financial Aids.

ILLINOIS ORPHANS EDUCATION ACT

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans and children of veterans who are totally and permanently disabled from a service-connected disability. Qualified orphans may receive up to \$150 with which to defray expenses. Application blanks and additional information may be obtained from the Department of Registration and Education, Springfield, Illinois, or from the Illinois Veterans' Commission, 1000 Broadway, Mattoon, Illinois, 61938.

STATE REHABILITATION PROGRAM

The University cooperates with the Illinois Division of Vocational Rehabilitation. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained at the Counseling Center, the local office of the Division of Vocational Rehabilitation (412-416 North 19th Street, Mattoon, Illinois, 61938), or the student's home area DVR office.

STUDENT EMPLOYMENT

See Section II.

IV. ADMISSION, READMISSION, REGISTRATION AND ADVISEMENT

ADMISSION

Policies

The general policy of the University is to admit during the regular academic year those students who rank in the upper fifty per cent of their high school class and who achieve satisfactory admission test scores, insofar as facilities permit.

The following general policies apply for admission, beginning with the fall quarter, 1970. The University may announce appropriate changes in closing dates when applicants exceed the number of students who can be accommodated.

BEGINNING FRESHMEN

Any Quarter: A high school graduate who ranks in the upper twenty-five per cent of his high school class, based upon completion of six or more semesters, is granted immediate acceptance upon completion of his application and payment of the required non-refundable application fee.

Fall Quarter: A student who ranks in the upper forty per cent of his high school class, based on six or more semesters of work, and who submits a completed application with the required non-refundable application fee before March 2, 1970, will be notified of his acceptance immediately. Others who have completed applications and paid the required fee at this point will be notified of deferral or non-acceptance.

A student who ranks in the upper half of his high school class, and who submits a completed application with the required non-refundable application fee by Monday, March 2, 1970, will be notified of his acceptance or deferral by April 1. Others who have completed applications and paid the required fee at this point will be notified of deferral or non-acceptance.

Closing dates for receiving completed applications for fall quarter will be announced in the public press, depending on the date capacity is reached.

Winter and Spring Quarters: A student who ranks in the upper half of his high school class, and who submits a completed application with the required non-refundable fee before the deadline dates, may be considered.

Deadlines for completed applications:

Winter Quarter, 1970-71.....Monday, November 2, 1970.

Spring Quarter, 1971.....Monday, February 15, 1971.

Earlier dates may be announced in the public press if capacity is reached before the dates indicated.

Note: Subject to capacity, a limited number of students ranking below the 50th percentile in their high school class and above the

40th percentile will be admitted in any quarter except the fall quarter if they have an ACT composite standard score of 21 or over. Also, high school graduates out of school one year or more and who have not attended college will be admitted in any quarter, but those ranking in the lowest one-third of their high school class will be admitted on final probation.

Summer Quarter: Applicants will be considered for admission regardless of rank in high school class and achievement on admission test scores. However, a student who ranks in the lowest one-third of his high school class will be admitted only on final probation and must (1) register for a minimum of twelve quarter hours and remain registered for a minimum of twelve quarter hours and (2) must satisfy retention requirements in order to continue in the fall quarter. All applicants for the summer quarter must submit completed applications with the required non-refundable application fee by Friday, May 29, 1970.

OUT-OF-STATE FRESHMAN APPLICANTS

Out-of-state applicants must meet the same admissions requirements as those which must be met by Illinois high school students.

TRANSFER STUDENTS

A student who has attended a junior college or another senior college, who has maintained a "C" average in his college work, and who would have met the beginning freshman admission requirements of the University for a particular quarter, may apply for transfer to the University at that particular quarter. Other students may apply for transfer at any quarter after completion of 82 quarter hours (55 semester hours) at a junior or senior college with a "C" average, except that students who rank in the upper ten per cent at the end of one semester or the upper twenty-five per cent after one year of junior college or senior college work may apply for transfer at that time. Transfer students must submit completed applications with the required non-refundable application fee at least one month before the beginning of the quarter in which they wish to enroll. An earlier closing date may be announced in the public press.

Transfer Students on Probation: Transfer applicants who are on probation in any institution previously attended, or would be on probation or final probation according to regulations of Eastern Illinois University, may be considered for any quarter except the fall quarter; their admission status will be defined by the Committee on Admissions.

Transfer Students Who Have Been Dropped: Transfer applicants who have been dropped from any institution of higher education, or who would have been dropped according to regulations of Eastern Illinois University, must remain out of school for at least one quarter; admission may not be granted in the fall quarter. Students in this category will be admitted only by the Committee on Admissions.

SPECIAL STUDENTS

High School Students: Students who have completed the junior year in a recognized high school, who have fourteen units, who rank in the upper twenty-five per cent of their high school class, and who have the recommendation of their principal may apply to take not more than two courses during the summer quarter preceding their senior year in high school and not more than one course in a regular quarter during their senior high school year. Credits which the student earns under this arrangement are held in escrow and later applied toward graduation at Eastern Illinois University. Students are cautioned that such credit may not be acceptable to, or transferable to, other educational institutions.

Non-graduates of High School: Residents of Illinois who are not high school graduates but who are at least twenty-one years old may be admitted as special students to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. Special students may become candidates for a degree by passing the General Education Development Test and obtaining a High School Equivalency Certificate; in this case, only those college courses taken after passing the examination may be counted toward graduation.

FOREIGN STUDENTS

Students from areas other than the United States may be admitted by Committee on Admissions action only.

Students whose native language is not English or whose college preparatory work has been done in non-English speaking schools, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Educational Testing Service. The admission requirement is a minimum score of 450 on the TOEFL.

GRADUATE STUDENTS

See Section VIII. Graduate Study.

Procedures For Applying For Admission

New freshmen applicants should be especially careful and prompt in submitting materials relative to applying for admission to the University. The procedure for admission is as follows:

1. Obtain an application for admission after the fifth semester of high school from:

Director of Admissions
Eastern Illinois University
Charleston, Illinois, 61920

2. Complete Parts I and II of the application form and give it to the high school principal or guidance counselor. He will complete the form and return it to the University *after the sixth semester rank is available.*
3. Have a health examination by the family doctor. He will complete

the health form, which should then be returned directly to the Director of Health Services.

4. Send the non-refundable fee of \$15 by check or money order made payable to Eastern Illinois University along with the admission fee data card to: Cashier, Business Office, Eastern Illinois University, Charleston, Illinois, 61920.
5. Each student applying for admission must submit scores from the American College Testing Program (ACT). Complete information concerning the ACT may be obtained from the high school guidance counselor or principal. It is strongly recommended that this test be taken during the junior year in high school for applicants who desire early notification of acceptance. All test results should be forwarded directly from the testing agency. Scores forwarded from the high school are not acceptable.
6. Students whose native language is not English or whose college preparatory work has been done in non-English speaking schools, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Educational Testing Service. The admission requirement is a minimum score of 450 on the TOEFL.

Transfer students must file an application for admission and must request the institution or institutions previously attended to forward to the Admissions Office transcripts that include all courses attempted and completed. The request for a transcript should include a request to transmit scores on entrance examination tests. Transfer applicants are required to furnish test scores for the American College Test (ACT).

In addition, prior to consideration, a transfer student not in good standing at his previous institution or institutions must submit a letter to the Admissions Office in which he discusses the reasons for his poor academic record and explains why he is capable of success at this University.

Graduate students should see Section VIII on Graduate Degree Programs.

An Official Permit to Enroll is mailed after an application has been processed and completed. The Official Permit to Enroll must be presented at the time the student registers.

Housing applications must be sent to the Director of Housing (see Section II, Living Accommodations) and may be made at any time, even though the application for admission has not been filed. The application for housing does not constitute an application for admission, nor does the application for admission constitute an application for housing.

Cut-Off Dates For Completed Applications

All applications for admission must be on file in the Admissions Office and all requirements for admission must be met by the cut-off date specified for the quarter in which the student wishes to enroll.

Summer Quarter, 1970.....	Friday, May 29, 1970
Fall Quarter, 1970.....	Monday, March 2, 1970
Winter Quarter, 1970-71.....	Monday, November 2, 1970
Spring Quarter, 1971.....	Monday, February 15, 1971

The University may announce changes in deadline dates for admission at any quarter when applications exceed the normal number of students that can be cared for by the University.

READMISSION

Former Undergraduate Students

Former undergraduate students who are in good standing and who return to the University after a lapse of one or more quarters must make application for readmission to the Records Office at least one month prior to the official registration of the quarter in which they intend to enroll. An earlier closing date may be announced in the public press. Students enrolled in the Spring Quarter need not apply for readmission for the ensuing Fall.

Former undergraduate students dropped for poor scholarship must apply for reinstatement to the Committee on Admissions. Petitions for reinstatement may be obtained from the Offices of the Dean of Men or the Dean of Women. Except where the student has not been dropped before and his grade point deficit is less than five points, he must be out of school one quarter before his petition will be considered. In any event, the student may not be reinstated for the Fall Quarter. Petitions must be submitted at least one month prior to the official registration day of the quarter in which the student hopes to return. An earlier closing date may be announced in the public press.

Former Graduate Students

Former graduate students who return to the University after a lapse of one or more quarters must make application for readmission to the Records Office at least ten calendar days prior to the official registration day of the quarter in which they intend to enroll. An earlier closing date may be announced in the public press.

Restricted Fall Quarter Attendance

No student who was placed on final probation or extended final probation at the close of the last quarter in attendance at Eastern Illinois University may attend in the fall quarter unless he has completed work in at least twelve quarter hours at Eastern Illinois University during the summer quarter immediately preceding and satisfied retention regulations.

REGISTRATION

Registration Procedures

New Students. Instructions for the registration of new students are given in writing, in conferences, and at meetings during orientation periods.

Students Currently Enrolled. Each student currently enrolled during a quarter should submit a Preferred Course Request for his early registration for the following quarter. By doing so, the student agrees to complete his registration by advance payment of registration fees. The University assumes no responsibility for accepting an ineligible student's registration.

Reservation of a space for any class is subject to the assigned capacity of the class. Scheduling for the reservation of space is planned so that graduate students, seniors, juniors, sophomores, and freshmen have priority in that order. Students who fail to complete the various steps in early registration will forfeit the space in class which has been reserved for them.

All students who have not completed early registration for a given quarter will register on Registration Day as listed in the University calendar and at times announced in advance of each quarter.

Former Students. Students who return to the University after a lapse of one or more quarters receive written instructions for registration after they have applied for readmission.

ACADEMIC ADVISEMENT

New Students

Each new student is assigned to an advisor who assists him in the preparation of his academic program. During the orientation or registration days the advisor and the student together plan his program. This plan is subject to modification later upon recommendation of the advisor and approval of the Dean of Student Academic Services.

It is expected that the student will have selected one of the curricula of the University and that the student and his advisor will plan courses that are consistent with the University requirements.

Former Students

After the application for readmission has been approved, the student is assigned to his major department or his former advisor through the Registration Office.

Students Changing A Major

Students who wish to change majors should apply in the Registration Office after consultation with their advisor. It is important that changes in majors and advisors be made *before pre-registration or registration*.

NEW STUDENT ORIENTATION

Prior to registration, activities are scheduled for acquainting new students with the University. Undergraduates enrolling at Eastern Illinois University for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize them with the University in order that they may understand its rules and regulations and become aware of the educational, social and recreational opportunities it provides. A schedule of activities is provided by mail.

V. ACADEMIC REGULATIONS AND REQUIREMENTS

CREDIT

CREDIT EARNED AT EASTERN ILLINOIS UNIVERSITY

The unit of measure is the quarter hour which is equivalent to two-thirds of a semester hour.

A regular academic year's work (three quarters) is equivalent to 48-54 quarter hours, with the student carrying four to five courses or 16-18 quarter hours each quarter. Course credits are indicated in the course descriptions.

Generally, students may earn no more than four quarter hours of credit toward graduation in dramatics, chorus, orchestra, or band. However, music majors and minors may receive a maximum of nine quarter hours credit toward graduation for such "ensemble" courses taken. See p. 356. (Students in elementary education may earn four quarter hours in ensemble credit.)

ACCEPTANCE OF CREDIT FOR OTHER WORK

Credit for Courses in Other Colleges. Advanced standing and transfer credit are granted for courses passed in accredited colleges and universities and in accredited junior colleges, the total credit being reduced by a number equal to the grade point deficit of courses passed if the transcript shows a cumulative grade point average of less than 2.00. The cumulative GPA and the grade point deficit are computed in accordance with the procedures of Eastern Illinois University. Junior college transfers are cautioned that 88 quarter hours of credit toward a bachelor's degree must be earned in this institution or in another university or senior college. Courses taken in a junior college may be substituted for required courses of similar content as recommended by appropriate officials of the University. Junior college transfer students must complete at least 64 quarter hours of upper division work at Eastern Illinois University. All transfer students must meet the stipulations listed under "Graduation Requirements."

Credit for Courses Taken in Foreign Universities. Eastern Illinois University recognizes that some students may wish to study at a university in a foreign country. Credits earned in foreign universities in programs sponsored by accredited United States colleges or universities are accepted on the same basis as transfer credits from the United States institutions which sponsor the programs.

Students who successfully complete a junior year abroad program sponsored by an accredited United States college or university are granted exemptions (in addition to the exemptions based on high school records) amounting to 12 quarter hours which may be applied in meeting the general requirements in any bachelor's degree program in the areas of humanities, history, and social science. These exemptions do not reduce the 190 quarter hours of credit required for graduation and they do not reduce the requirements pertaining to majors and minors.

Credit for Military Service. Former members of the armed services who completed at least one calendar year of full time active duty are allowed, upon application to the office of Veterans' Services, up to ten quarter hours of credit for Health Education 120 and physical education courses. Certain experiences in military service may be submitted for evaluation for advanced standing. The recommendations contained in "A Guide to The Evaluation of Educational Experiences In the Armed Services" by the American Council on Education are used as a basis for such evaluation. Credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the University.

Credit for Correspondence and Extension Courses. Correspondence and extension courses taken from accredited colleges and universities may be submitted for evaluation for advanced standing toward a baccalaureate degree. The total credit accepted toward graduation may not exceed forty-eight quarter hours in correspondence and/or extension courses. Credit toward graduation for such courses, if taken in whole or in part during a period of residence study at Eastern Illinois University is subject to permission granted by the Dean of Student Academic Services in advance of enrollment and to subsequent completion in accordance with the conditions governing the permission. When students are enrolled simultaneously in any combination of residence, extension and correspondence courses, the total credit accepted may not exceed the maximum residence credit for which the student would be eligible during the period in question.

Application for permission must include the proposed starting date of the course, the proposed completion date, and the proposed periods of work. If the course is not completed in accordance with this schedule, an extension of time granted by the Dean of Student Academic Services is required in order for the course to be considered subsequently for credit toward a degree. Documentary verification of compliance with the regulations may be required by the Dean of Student Academic Services.

Credit for Advanced Placement Tests. Students who submit scores for Advanced Placement Tests administered by the College Entrance Examination Board will have their records evaluated by the Dean of Student Academic Services, in accordance with standards established by the appropriate departments, to determine proper placement and proper credit. College credit granted will be treated as transfer credit without a grade; such credit will count toward graduation and may be used in fulfilling specific curriculum requirements. Credit may be allowed as indicated above only if the student was not obliged to use the credit earned in the advanced placement course to meet minimum high school graduation requirements.

Credit for College Level Examination Program (CLEP) Tests. Eastern Illinois University recognizes undergraduate achievement in the five basic liberal arts areas as measured by the general examinations of the College Level Examination Program (CLEP). A student with no college credits who achieves a score at or above the 25th percentile, based on CEEB national norms for students who have completed two years of college work, on one of these tests is granted, upon admission to Eastern Illinois University, eight quarter hours of credit that count toward the 190 quarter hours required for a bachelor's degree. Maximum total hours for the

battery of five tests is 40 quarter hours. Students who enroll at Eastern Illinois University with transfer credits and CLEP scores on general examinations may be given CLEP credit only in those areas not duplicating transfer credit.

Credit for College-Level General Educational Development Tests. No credit toward graduation is allowed for college-level General Educational Development tests.

CREDIT BY PROFICIENCY EXAMINATIONS

Proficiency examinations may be taken for credit in undergraduate courses offered in the University in accordance with the following regulations:

1. The applicant must be in good standing and must fit into one of the following categories:
 - a. Be enrolled as a full-time student.
 - b. Be within sixteen quarter hours of graduation.
 - c. Be a teacher who has been working regularly toward the degree Bachelor of Science in Education.
 - d. Be in full-time residence in the summer immediately preceding the year in which application is made.
2. The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
3. The applicant must obtain a recommendation in writing from the department head and approval from the Vice President for Instruction before the examination may be taken. The applicant should present evidence of independent study, of experience, or of equivalent work taken in non-accredited schools.
4. An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for more than one quarter of work in advance of the course in which the examination is requested.
5. Proficiency examinations may not be used to remove grades of F or to raise grades.
6. In order for the student to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol Cr is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
7. Credit earned by proficiency examinations may be counted toward a bachelor's degree subject to all of the rules that would apply if the same course had been taken in regular class attendance.
8. Proficiency examinations may not be given for credit in physical education service courses.
9. When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the head of the department.

CLASSIFICATION OF STUDENTS

Undergraduate students are classified as follows:

Freshmen	0 through 42 quarter hours
Sophomores	43 through 89 quarter hours
Juniors	90 through 141 quarter hours
Seniors	142 quarter hours and over

Graduate students are defined as students who have completed all requirements for a bachelor's degree and have applied for and been admitted to the Graduate School.

HONORS PROGRAM

Selected students who volunteer may enroll in the Honors Program which has the following objectives:

- a. to give outstanding students opportunity to explore various fields of study more widely and in greater depth, in a manner suitable and challenging to their talents;
- b. to encourage intellectually gifted students to enroll at Eastern Illinois University; and
- c. to create for outstanding students an environment highly conducive to scholarly pursuit.

The program consists of special honors sections of courses, special courses for honors students, and, at the advanced level, independent study and honor seminars. Students participating in the program are designated Hobart F. Heller Scholars.

ACADEMIC STANDING

GRADES

The grades given in courses are as follows:

Grade	Description	Grade Point Value
A	Excellent	4
B	Good	3
C	Fair	2
D	Poor but passing	1
F	Failure	0
P	Pass	—
E	Incomplete	—
W	Withdrew—passing	—
WF	Withdrew—failing	0
AU	Audit	—
Cr	Proficiency Credit	—

The grade of E is given only when, because of illness or some other important reason, a student's normal progress in a course is delayed. Such student must secure an instructor-approved plan which will allow completion of work no later than the end of the next quarter in which the course is offered and in which he is in residence. If the plan is accomplished, the instructor submits a Removal of Incomplete Form indicating

the appropriate grade. If the student does not secure an instructor-approved plan or if the plan is not accomplished within the specified time-limit, the instructor will submit a change-of-grade form indicating an F grade or, in special circumstances, he may grant a time extension. This requirement applies to both undergraduate and graduate courses with the exception that the time restriction does not apply to the formal paper required for a master's degree.

GRADE-POINT AVERAGE*

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of quarter hours which may be earned in the course. The grade point average is computed by dividing the total number of grade points which a student has earned in all courses taken at Eastern Illinois University by the total number of quarter hours represented by those courses (excluding courses in which a student has grades of E, P, W(WP), AU, or Cr).

GRADE-POINT DEFICIT**

If the grade-point average is less than 2.00, a grade-point deficit exists. This is computed by subtracting the grade-point total from twice the total number of quarter hours. (This is equivalent to defining the grade-point deficit as the number by which the grade-point total would have to be increased in order to have a grade-point average of 2.00.)

DEFINITION OF QUARTER OF ATTENDANCE

Any quarter in which a student registers in the University and remains beyond the day on which the official count is taken will be considered as a quarter attended.

GOOD STANDING

A student who has attended Eastern Illinois University for at least one quarter and who has attempted 39 or less quarter hours of college credit, including those taken at another institution is considered in good academic standing unless he has a deficit greater than four points in courses taken at Eastern Illinois University. If the student has attempted more than 39 quarter hours in college credit, including those taken at another institution, he is considered in good academic standing if he has no grade-point deficit in courses taken at Eastern Illinois University.

* An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 4, 4, 1, and 4 quarter hours respectively, the grade-point average and grade-point deficit are computed as follows:

Grades	Quarter Hours	Grade Points
A	2	8
B	4	12
C	4	8
D	1	1
F	4	0
	<hr/> 15	<hr/> 29

Computation

$$\text{G.P.A.} = 29 \div 15 = 1.93$$

$$\text{**G.P.D.} = 2 \times 15 - 29 = 1$$

PROBATION

A student whose record falls below that required for good standing, but not so low as to be subject to exclusion, is placed on probation.

FINAL PROBATION

A student who has attended for one quarter on probation and whose record at the close of that quarter or at any subsequent time falls below that required for good standing, but not so low as to be subject to exclusion, is placed on final probation.

An entering first quarter freshman student who is admitted on final probation, however, is subject to the same rules as those governing a student admitted in good standing if, in each of his first three quarters, he carries a minimum of 12 quarter hours each quarter and attains a quarterly GPA of at least 2.00.

EXTENDED FINAL PROBATION

A student who has attended for one quarter on final probation must either attain good standing or reduce his grade point deficit by at least four points in order to be classified as on extended final probation, and be subject to all the rules which govern final probation.

EXCLUSION (DROPPED)

An undergraduate student is dropped for low scholarship if (1) at the end of a quarter on Final Probation he has neither attained good standing nor qualified for Extended Final Probation, (2) after reattaining good standing he fails at any time to maintain good standing, (3) he has attempted 96 or less quarter hours of college credit, including those taken at another institution, and his grade point deficit in courses taken at Eastern Illinois University exceeds 12 points, (4) he has attempted more than 96 quarter hours of college credit, including those taken at another institution, and his grade-point deficit in courses taken at Eastern Illinois University exceeds eight points.

POST BACCALAUREATE DEGREE STUDENTS

A Post-bachelor's degree student who is enrolled either part-time or full-time for courses in the University and who is not a degree candidate must achieve the following grade-point average or be subject to academic dismissal:

<i>Total Hours Attempted Beyond Bachelor's</i>	<i>Minimum GPA</i>
0-4	1.00
5-16	1.50
17-24	1.75
25 and above	2.00

REINSTATEMENT AFTER EXCLUSION

A student dropped for low scholarship may petition the Committee on Admissions for reinstatement at any time; however, a period of one quarter must elapse before a student may be reinstated, unless the student has fewer than five deficit points and has not been dropped previously.

If a student is reinstated by the Committee on Admissions before

one calendar year has elapsed from the time of his being dropped, the student re-enters the University on final probation and must reduce his deficit points by at least four points during each quarter until reaching good standing, and then maintain good standing each quarter in order to remain in the University. Such a student, upon reinstatement, re-enters with his current grade-point average, his current deficits, and his credits for previous courses graded D.

Any student who has been dropped academically and who is granted reinstatement after at least one calendar year has elapsed from the time of the drop, re-enters the University on final probation, and his previous record is evaluated as follows: his hours of credit toward graduation are limited to the total represented by courses previously passed with a grade of C or higher; courses previously graded D need not be repeated and they may count toward filling course requirements but, in no case may their hours count toward the total hours required for graduation; and subsequent computation of his grade-point-average is based on work done after reinstatement. A student may have only one opportunity for reinstatement on these terms.

ACADEMIC LOAD

UNDERGRADUATE STUDENT

Normal Load. The normal load for an undergraduate student in any of the three quarters of the school year is sixteen to eighteen quarter hours of undergraduate course work.

Maximum Load—Student Teaching Quarter. No student may take more than sixteen quarter hours of work during the quarter in which he is doing student teaching.

Maximum Load—First Quarter of Residence. No student may register for more than eighteen quarter hours during his first quarter of residence.

Combination Loads—Summer Eight-Week Term. An undergraduate taking work in both the undergraduate summer quarter and the graduate term may take not more than 16 quarter hours, with combinations as follows:

A junior or senior whose cumulative grade point average is 2.25 or higher may combine three courses in the undergraduate quarter with one course numbered 450 to 499 in the graduate term.

A junior or senior whose cumulative grade point average is 2.75 or higher may combine two courses in the undergraduate quarter with two courses numbered 450 to 499 in the graduate term.

A junior or senior who takes no more than 12 quarter hours in total may take these in any combination undergraduate courses and courses numbered 450 to 499 offered in the graduate term.

A senior who is otherwise eligible for a course numbered 500 to 549 may take it instead of a course numbered 450 to 499 in accordance with the above rules.

Overload. Subject to exceptions set forth below, an undergraduate student may register for as many as twenty-one quarter hours of undergraduate work if his cumulative grade point average or his grade point average

for the last three quarters is at least 3.00. An undergraduate student may register for more than twenty-one quarter hours of undergraduate work if his cumulative grade point average is at least 3.50 and he has permission from the dean or director of the college or school administering his major.

Final Quarter Seniors. Final quarter seniors, not taking student teaching in that quarter, may register for up to and including twenty quarter hours of undergraduate work providing:

- a. the student is in good standing;
- b. the appropriate dean or director notifies the Dean of Student Academic Services in writing that such an academic load, if successfully completed, will insure graduation in that quarter. The student is responsible for obtaining such a statement from his appropriate dean or director and taking it to the Dean of Student Academic Services who, thereupon, authorizes the overload.

If the student is scheduled for student teaching in his last quarter, he may use the above option in the preceding quarter.

GRADUATE STUDENT

A graduate student is restricted to sixteen quarter hours during a fall, winter or spring quarter and twelve quarter hours during the summer term.

The maximum that may be earned in an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

COURSE ENROLLMENT

A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he will not receive credit for the course toward graduation and the grade will not be included in any GPA computations.

REPEATING COURSES

A student who receives an A, B, or C grade in a course may not repeat the course. A student who receives a D in a course may repeat the course only once.

AUDITING OF COURSES

Provisions for auditing courses may be made under certain circumstances.

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of registration from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes.

ATTENDANCE AT CLASS

Academic instruction at the University operates under the principle that class attendance is necessary to the complete learning process. Therefore, students are expected to attend their classes unless prevented by illness, an official university activity, or other urgent reasons.

If the student is absent from class for a legitimate reason which is established through the University Health Service or the Dean of Men or Dean of Women, the instructor should afford the student a reasonable opportunity to make up work missed, including examinations. When the absence is unexplained, no such opportunity need be afforded the student.

A student who is absent from class, for whatever reason, is held responsible for the class material covered during his absence and he is expected to turn in all the exercises, papers, etc., assigned for submission during the course. However, the instructor will not use the mere fact of absence as a factor in determining a final course grade since such evaluations are based on achievement and are expected to measure learning—not attendance.

Instructors are responsible for keeping in their classbooks accurate records of the attendance of all members of their classes. The attendance record of any student shall be submitted to the Vice President for Instruction, Dean of Men, Dean of Women, or the Dean of Student Academic Services upon request.

If a student is absent from a given class for more than five consecutive sessions or establishes a pattern or record of absences which becomes a matter of concern to the instructor, the instructor will notify the Dean of Men or Dean of Women of the student's absence record, requesting that inquiries concerning the reason for absence be made. In aggravated cases of failure to attend class, the instructor and the Dean of Men or Dean of Women may recommend to the Council of Administrative Officers that the student be dropped from a course or from the University.

PASS-FAIL OPTION

To encourage students to participate in areas of learning outside their major academic interests and to stimulate intellectual curiosity, the University inaugurated a pass-fail system. The following rules apply:

Eligibility. Juniors and seniors in good standing.

Courses Excluded. Courses used to satisfy all-university requirements, major requirements, concentration requirements, or professional education requirements (except Teaching Practicum). Further, 100 level courses taken pass-fail cannot be used to satisfy general requirements. (Only four-quarter-hour courses may be taken pass-fail.)

Limit of Courses. Maximum of four total courses, with only one option course in any single quarter. Teaching Practicum is not included in the pass-fail limit.

Procedures. At pre-registration, only, the student will indicate the course he has opted for a pass-fail grade. No change of grade basis will be

made unless the student fails to qualify for the pass-fail option.

Grades. Instructors will award the usual letter grades, but for students who select a pass-fail option, the permanent record card will show, for the opted course, either P or F. In the unusual case when a junior or senior changes his major which may then include as a requirement a course he has previously opted for pass-fail, the letter grade originally awarded will be entered on the permanent record card and appropriate recomputation of GPA will be made.

GPA. Hours taken Pass-Fail will be counted in total hours credit toward graduation. A grade of P and credit hours for the P will not be included in GPA computation. However, an F grade and its hours will count in GPA computations.

WITHDRAWAL FROM A COURSE

A student who wishes to drop a course must obtain a drop slip, complete it, and return it to the Registration Office. The following rules apply:

1. Within the first ten calendar days after the first day of a quarter, a student may withdraw from a course (or from the University) without a grade.
2. After the first ten calendar days following the first class day, but prior to the 30th* calendar day of the quarter, a student may withdraw from a course (or from the University) with a grade of W.
3. A student who withdraws on or after the 30th* calendar day of a quarter will receive a grade of W if he is passing the course or a grade of WF if he is failing the course. However, no student may initiate withdrawal from a course (or from the University) later than a period beginning fourteen calendar days prior to the first regularly scheduled final quarterly examination.
4. If mitigating circumstances exist, the Dean, Student Academic Services, may upon recommendation of the Dean, Student Personnel Services, and/or the University Physician, advise the recording of a grade of W instead of a grade of WF.
5. If a student discontinues attendance in all classes without withdrawing officially, grades of F are recorded in all courses.
6. The grade of WF carries the same grade-point evaluation as the grade of F.

For refund of fees, where applicable, see page 61.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the end of a quarter or summer term must obtain a withdrawal form from the Dean of Men or Dean of Women. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return

* If the 30th calendar day of the quarter falls on a Saturday, Sunday, or within a stated vacation period (except the Christmas break), the next school day is used. In the case of the Christmas break, the vacation days are not included.

of the identification card, etc., have been met. When completed, the form must be turned in to the Registration Office. The student is not withdrawn until the form is completed and submitted. The student is then officially withdrawn from the University, and the Registration Office notifies appropriate departments and agencies of the withdrawal.

If a student withdraws from the University and his initial notice of intention to withdraw is made to the Dean of Men or Dean of Women and his withdrawal is completed during the first ten calendar days (except the eight-week graduate term) following the first day of classes for the quarter, the registration fee will be refunded. The notice of intention to withdraw should be made in person although a letter addressed to the Dean of Men or Dean of Women declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice.

Policies covering the withdrawal of students from school because of a call to active military duty are administered by the Dean of Student Academic Services.

Rules governing grading practices upon withdrawal from the University are the same as for withdrawal from a course.

GRADUATION REQUIREMENTS

RESPONSIBILITY OF STUDENTS

It is the responsibility of the student to know and to observe the requirements of his curriculum and the rules governing academic work. Although the advisor will attempt to help the student make wise decisions, the ultimate responsibility for meeting the requirements for graduation rests with the student.

OPTIONAL CATALOG REQUIREMENTS

A student may choose to graduate under the requirements stated in the catalog current at his time of entrance or under the requirements stated in a subsequent catalog published prior to his graduation. However, in no case may a student combine or choose various requirements from several catalogs in order to achieve a minimal curriculum. During periods of transition, Deans, in consultation with department heads, are authorized to make such curriculum adjustments to graduation plans that will assure academically meaningful programs. Copies of all authorizations for exceptions must be filed in the Records Office.

Junior college transfers will be granted the same catalog options as native students in accordance with the following:

- a. The student who transfers to the University at the end of his freshman year will have the option of meeting requirements for graduation under the catalog which was in effect when he became a freshman at the original institution or the current University catalog, whichever he chooses.
- b. The student who transfers to the University after completing his sophomore year will have the option of choosing the University catalog which was in effect when he entered the original institution or either of the two succeeding catalogs.

- c. In no case will the transfer student be allowed to select a University catalog which was in effect more than three years prior to his admission to the University.

COURSE REQUIREMENTS FOR THE BACCALAUREATE DEGREES

The official course requirements for the baccalaureate degrees are given in Section VII.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

A candidate for a second bachelor's degree must earn at least 222 quarter hours of credit, 96 of them in residence, and meet the requirements of the programs in which he is a candidate. The two bachelor's degrees may be conferred at the same time providing the student makes appropriate arrangements with the deans concerned prior to entering officially upon the programs leading to the two degrees.

TOTAL CREDITS REQUIRED

The minimum credit for a baccalaureate degree is 190 quarter hours including at least 6 quarter hours but not more than 9 quarter hours of physical education service courses. For disabled persons, military veterans and students who are over 38 years of age at the time of admission to the University, a waiver of up to 6 quarter hours will be granted for physical education service courses and the graduation requirement will be reduced by a corresponding number of hours, but by no more than 6 hours.

RESIDENCE

Undergraduate degree candidates must earn a minimum of 64 quarter hours of residence at this institution, and complete at least 48 quarter hours in residence during their junior and senior years. Cooperative degree candidates must earn at least 64 quarter hours in residence and complete a minimum of 40 quarter hours in residence during their junior and senior years.

TRANSFER STUDENTS

A transfer student is required to pass a minimum of three courses in his major department.

SPECIAL EXAMINATIONS

Constitution Examination. An examination on the Declaration of Independence, the proper use and display of the flag and the constitutions of the United States and of Illinois must have been passed before the student applies for graduation. An exemption from this requirement may be obtained by students who receive a grade of C or better in each of Political Science 110, 111, 112 and who apply to the Records Office.

Seniors. Seniors, preferably in their last two quarters, depending upon their area of concentration are encouraged to take one of the following examinations:

- a. For students in the Elementary and Junior High School Curriculum: The National Teacher Examination—Common.
- b. For students in the Secondary School Curriculum: *either* the NTE *or* the GRE.
- c. For all other undergraduate students: The Graduate Record Examination—Aptitude.

ADVANCED COURSES

Sixty-four quarter hours of credit in courses numbered 300-549 must be earned in the baccalaureate degree programs. In the case of students who enter with advanced standing, courses not open to freshmen and sophomores in schools previously attended may be included in this total.

GRADE-POINT AVERAGE

Grade point averages required for graduation are: a cumulative overall GPA of at least 2.00; and a cumulative GPA of at least 2.00 in the major.

CREDIT FOR COURSES IN EDUCATION*

Courses in education (except Education 495) and methods of teaching are accepted only toward the degrees Bachelor of Science in Education and Bachelor of Arts and Bachelor of Science for students who are secondary teaching candidates. Enrollment in these courses (with the exception of Education 123 and 232) is restricted to students at the junior level, or higher, who have been accepted as teacher education candidates.

APPLICATION FOR GRADUATION

Degrees are conferred at the close of the fall, winter, spring, and summer quarters. Students entitled to participate in commencement exercises are those whose current enrollment in correspondence, extension, and residence at this university or elsewhere makes possible the completion of all graduation requirements by the close of the quarter in which commencement is held. Students may be excused from the commencement exercises by the Faculty Marshall.

Students apply for graduation by the middle of the quarter in which they expect to complete 112 quarter hours of course work. A student may expect to receive an evaluation of his progress toward completion of graduation requirements approximately one month after the beginning of the ensuing quarter.

Applications for graduation may be obtained at the Records Office. The application is completed by the student and validated by the Cashier when the graduation fee is paid. Graduation fees are as follows: bachelor's degree, \$10.00; master's degree, \$15.00; specialist's degree, \$15.00.

All requirements for degrees must have been completed by the close of the quarter in which graduation is sought. It is the student's responsibility to notify the Records Office of any non-campus courses being taken which will complete the requirements for graduation. Documentary evidence that

* Students enrolled in the Family Services curriculum are required to take Education 490 and students enrolled in the Dietetics curriculum take Education 232 and the methods course in home economics.

all degree requirements have been completed must be in the Records Office by the official closing date of the quarter of graduation, or within a thirty-day grace period following that date. The diploma will not be given to the student and the conferral of the degree will not be recorded on the student's permanent record until all such documents have been received.

If the student does not complete graduation requirements at the end of the quarter expected, he must make re-application for graduation. No additional fees will be charged.

The deadline date for applying for graduation is the regularly scheduled registration day for the quarter at the end of which the candidate plans to graduate.

HONORS

Graduation Honors. A student whose cumulative grade-point average is at least 3.40 but less than 3.75 is graduated with honors; one whose cumulative grade-point average is 3.75 or higher is graduated with high honors.

To be eligible for graduation honors a student must have taken, by the time he graduates, a minimum of 88 quarter hours at Eastern Illinois University.

In order to be announced at commencement, tentative graduation honors will be computed on the basis of the scholarship record at the end of the quarter preceding the quarter of graduation. However, graduation honors are recorded on the diploma and the transcript only for students who complete graduation requirements with the final cumulative grade-point averages specified above.

Quarter Honors. Honors for a particular quarter, announced at the close of a quarter, are awarded in accordance with quarter grade-point averages which must have the same value as those specified above. To be eligible for quarter honors the student must have taken at least 12 quarter hours in courses not graded P-F during the quarter.

CERTIFICATION

Candidates for the degree B.S. in Ed., and secondary education candidates for the degrees B.S. or B.A., are responsible for fulfilling any special certification or accreditation requirements of the schools in which they will teach.

Cards of entitlement for teaching certificates or transcripts indicating that the student has completed his degree cannot be issued until the student meets all requirements of the section on Graduation Requirements.

Administrative Certification. Graduates of an approved program in administration should make application for cards of entitlement through the Department of Supervision and Administration, Faculty for Professional Education.

PLACEMENT OFFICE

Registration with the Placement Office is prerequisite to graduation with any degree.

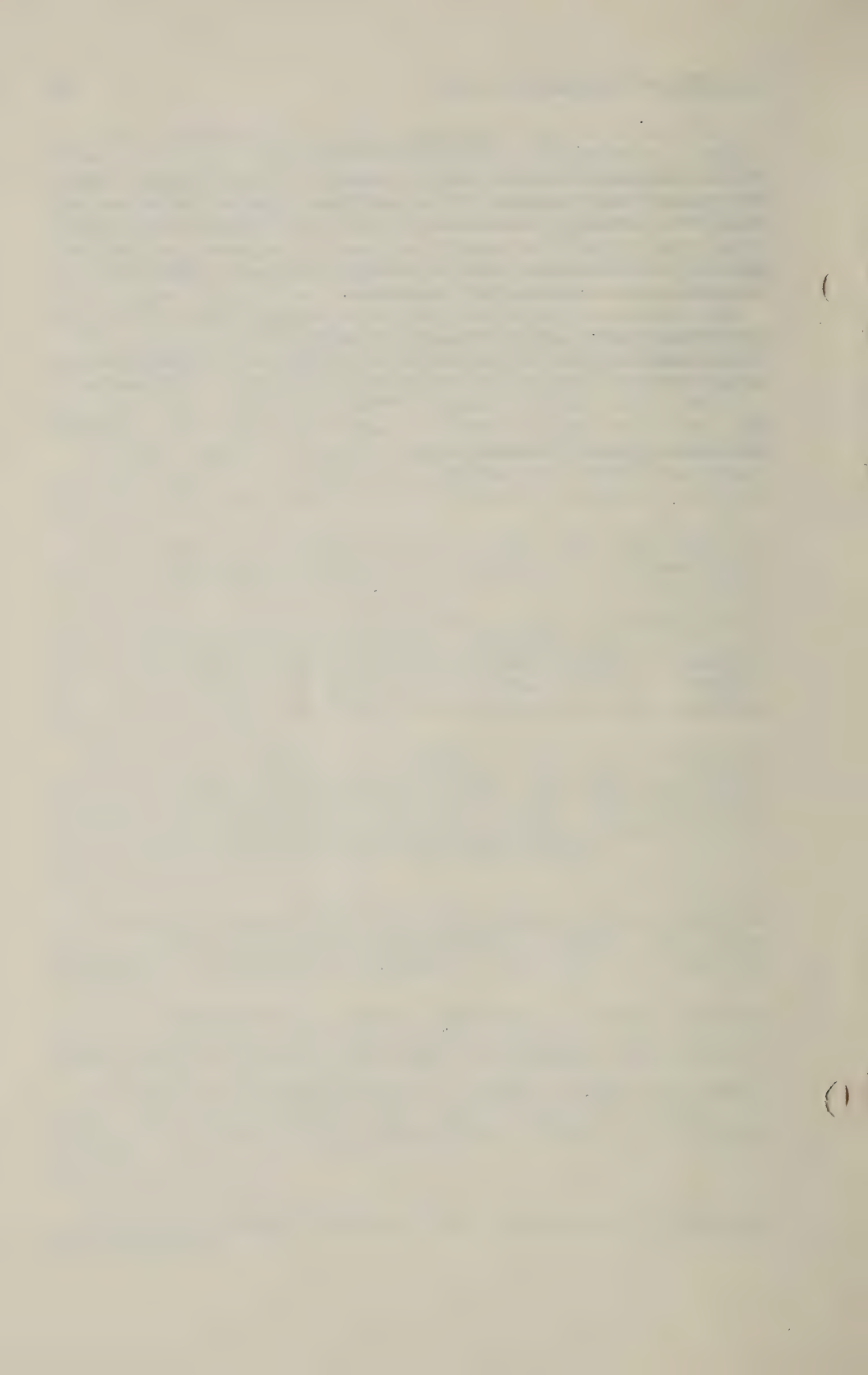
TRANSCRIPTS

The Records Office will make a transcript of the academic record of a student when requested to do so. Unless specific instructions are given to the contrary, it is understood that the Records Office has permission of the student to send his transcript of record to employing and certifying agencies, such as schools, boards of education, businesses, state department of education, when such an agency requests it.

All requests for transcripts must be in writing, either by letter or on the request form supplied by the Records Office.

The time required for preparation and mailing of transcripts varies; during registration and quarter end there may be a delay of several days.

A fee of one dollar is charged for each transcript issued after the first one. Fifty cents is charged for each extra copy of the transcript when more than one is made at one time.



VI. EXTENSION SERVICES

ESTABLISHING CENTERS

Extension courses are assigned to centers where it is likely that needs and enrollment will justify the service. Requests from county superintendents, unit administrators, groups of teachers, and other agencies are considered in planning the extension offerings.

Requests for courses should be filed well in advance of the time the course may be desired. The University reserves the right to cancel scheduled classes where there is evidence that the enrollment will be inadequate.

ENTRANCE REQUIREMENTS

Undergraduate extension courses are open to high school graduates subject to specific course prerequisites. However, admission to undergraduate extension courses does not constitute admission to the University. An application for admission must be filed at the time of registration the first time a student registers for an on campus undergraduate course.

A student enrolling in graduate courses is subject to the same entrance requirements as one enrolling in comparable courses taught in residence. He must file an application for admission to graduate study at the time of registration the first time he registers for a graduate course.

REGISTRATION PROCEDURES

Students will register and pay fees by mail. The instructor will furnish students with registration material at the first and second class sessions. Enrollment procedures will be explained by the instructor at that time. The completed forms and fees are mailed to the Business Office.

FEES

The fees are \$10.00 per quarter hour of credit. In addition, a \$3.00 book rental is charged each student.

Regular fees are required of students auditing a course.

CREDIT FOR EXTENSION COURSES

Credit (in most cases, four quarter hours) is given upon successful completion of an extension course. Students not interested in receiving credit may audit courses by paying appropriate fees and receiving permission from the instructor.

SCHOLARSHIPS

Teacher Education Scholarships may not be used on extension. Military Scholarships may be used on extension.

SCHEDULE OF CLASSES

The schedule for extension classes is published annually in the Extension Bulletin. Classes meet in weekly periods of one hundred fifty minutes for sixteen weeks, i.e., from 7 p.m. to 9:30 p.m., once per week. Address all requests for bulletins and other inquiries to the Director of Extension.

WORKSHOPS, CONFERENCES AND SPECIAL FEATURES

Each summer a series of workshops, conferences, and/or special features are planned by various academic departments at Eastern Illinois University. Occasionally, workshops are conducted at centers away from the university campus. All workshops are coordinated through the Extension Office — requests being submitted to the Director of Extension during the Fall Quarter of each year.

Workshop classes will not meet more than five days each week. Credit for each course is determined by the following minimum criteria:

<i>Quarter</i>	<i>Hours</i>	<i>Contact Hours</i>	<i>Minimum Class Days</i>
1		10-12	5
2		20-22	11
3		30-32	11
4		40-42	14

The unit of measure is the quarter hour, representing approximately 32 hours of student effort, including time spent in class, study, laboratory, and examinations. The normal four-quarter-hour non-laboratory course includes 40 contact class hours plus study time (approximately double the class time) plus a final examination and examination study time, or a total of about 126 hours of effort.



VII. UNDERGRADUATE DEGREES

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors, minors, and other specialized curricula for the degrees, are described in the sections which follow. The student, has the ultimate responsibility to fulfill the requirements for the degree, to check his own eligibility to take courses, and to observe the academic rules governing his program. The advisor's role is to assist him in making important decisions.

CHOOSING A DEGREE

General. The University confers the following undergraduate degrees:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Music
- Bachelor of Science in Business
- Bachelor of Science in Education
- Bachelor of Science in Home Economics
- Bachelor of Science in Industrial Technology
- Bachelor of Science in Recreation

The Bachelor of Arts degree indicates a broad, liberal education with emphasis in the humanities and the social sciences. Similarly, the Bachelor of Science degree implies a special interest in scientific thought, subject and method. Other degrees listed above indicate particular preparation for definite professional or vocational roles. All undergraduate degrees require that the student complete courses in general education consisting of specific all-University requirements and distribution requirements in certain areas, at least one academic specialization, and, in certain programs, prescribed professional courses. Unless otherwise specified, courses listed both in the general education requirements and in the specialization requirements may count toward satisfying both requirements.

TEACHER PREPARATION PROGRAMS

A chief objective of the University, since its beginning, has been the preparation of exceptionally qualified teachers for the schools. Even with today's expanded curriculum including various general and professional programs, much of the University's concern continues to be teacher preparation, and some two-thirds of the students in each graduating class are prepared to enter careers as elementary, junior high school, or secondary teachers.

Recognizing the importance of preparing the highest quality of teachers and school service personnel, the University views teacher education as a total institutional responsibility. To marshal all relevant resources to the support of the teacher education program the University has established a representative faculty Council on Teacher Education. This council reviews

and adjudicates all matters pertaining to curricular change and revision, admission and retention standards for teacher education, and establishes policies governing teacher education.

Teacher preparation programs require admission to teacher education (see below), successful completion of general education courses and professional education courses, including student teaching (see Teaching Practicum, page 101), and specialized study of one or more disciplines which the student plans to teach. Upon completion of certain programs, teaching candidates are qualified to receive a bachelor's degree and are recommended for an Illinois teaching certificate as follows:

<i>Degree</i>	<i>Teaching Certificate</i>
B.S.Ed.	Standard Elementary Certificate, Grades K through 9
B.A., B.S., B.S.Ed.	Standard High School Certificate, Grades 6 through 12
B.S.Ed.	Standard Special Certificate, Grades K through 14

The curriculum for junior high school teaching leads to the B.S.Ed. degree and the Standard High School Certificate.

High school or secondary teaching candidates who wish to prepare for teaching in a single discipline may choose to work toward the B.A. or B.S. degree and a Standard High School Certificate by completing the all-University requirements, the distribution requirements for the appropriate degree, the teaching major requirements for the discipline as shown in the B.A. and B.S. degrees section, and the professional education requirements for high school teachers as shown in the B.S.Ed. section. Pertinent disciplines are botany, chemistry, English, foreign languages, geography, history, mathematics, physics, political science, psychology, speech, theatre arts, and zoology.

Secondary teaching candidates who are preparing to teach in more than one discipline will work toward the B.S.Ed. degree and a Standard High School Certificate by completing the all-University requirements, the distribution requirements shown for Professional Degrees, a major and a minor* as shown in the B.S.Ed. section, and the professional education requirements for high school teachers.

Special area teaching candidates who wish to teach art, home economics, music, physical education (women), or speech pathology and audiology, work toward a B.S.Ed. degree and a Standard Special Certificate by completing the all-University requirements, distribution requirements for Professional Degrees, the major as shown in the B.S.Ed. section, and the professional education requirements shown for special area teachers.

ADMISSION TO TEACHER EDUCATION

Admission to the University does not of itself admit a student to a teacher education program. Rather, the teaching aspirant must formally apply for teacher education through the office of the Dean, Faculty of Education, to the University Council on Teacher Education which determines such admissions. Admission to teacher education is, in general, prerequisite to education courses numbered 300 or higher (except Education 495) and to departmental methods courses. Exceptions to this rule are made to

* Certain curricula do not require a minor in the B. S. Ed. degree. See major outlines in the B. S. Ed. section.

allow Dietetics majors to enroll in departmental methods course, and Family Services majors to enroll in Education 490.

Application forms are secured in the office of the Dean, Faculty of Education. Each applicant is given a pamphlet explaining admission and retention policies. Section 21-2 of The School Code of Illinois states in part, "No one shall be certificated to teach or supervise in the public schools of the State of Illinois who is not of good character, good health, a citizen of the United States and at least 19 years of age. . . ." In addition to the qualifications outlined by the State Code, the Council also requires for its consideration of each teacher education candidate the following:

1. A formal application.
2. Grades which average 2.10 or higher.
3. Evidence that proficiency in English as a prerequisite to graduation has been met.

(a) A student will meet the criterion for English proficiency for admission to teacher education if he has a C average in any combination of three of the following four courses: English 120, 130, 201, Speech 131. (Certification requirements may be met by a score of 400 or higher on the verbal aptitude part of the Graduate Record Examination.)

(b) In the case of a student who has repeated one or more of the courses considered in determining English proficiency only the higher grade received in each course is used in computing the grade average. (For other purposes all grades in courses taken at Eastern are included in computing grade averages.)

(c) For students who entered Eastern before September 1, 1968, the English proficiency requirement for admission to teacher education is satisfied by a 2.00 or higher average in English 120, 121, and 220, or by a 3.00 or higher average in English 120, 121 (or equivalent courses), or by (a) above.

(d) The above requirements for establishing English proficiency as a prerequisite for admission to teacher education apply to all candidates who had not been declared proficient in English prior to December 7, 1967.

4. A recommendation from the student's major department.
5. A recommendation from the University Physician.
6. A recommendation from the Speech and Hearing Clinic.
7. A record of the scores made by the student in entrance tests and subsequent tests administered to students.
8. A statement from the Dean of Student Personnel Services.

Failure of a student to gain admission to teacher education by the close of the quarter in which he will have earned 120 quarter hours, or failure by a transfer student who entered with 84 or more quarter hours in accepted credit to receive approval by the end of his third quarter of residence at Eastern Illinois University, is equivalent to rejection

of the application. A student whose application is rejected may not continue his enrollment in a teacher preparation program. A student who is refused admission to the teacher education program or whose admission is revoked may appeal the decision to the Council on Teacher Education. Appeal forms may be secured in the office of the Dean, Faculty of Education. Students are cautioned that appeals are considered on the basis of extenuating circumstances. Students admitted to teacher education after the 120 quarter hour cut-off may be required to take additional hours, up to a maximum of 60 quarter hours, of undergraduate credit prior to completing the requirements for the teaching degree program. This additional work is to be taken during quarters following the quarter of admission.

Curricula for High School and Special Area Teachers.

The student must make application for admission to teacher education no earlier than the quarter in which he will complete 40 quarter hours of credit and no later than the quarter in which he will have completed 100 quarter hours of credit. Enrollment in departmental methods courses or in courses in education is not permitted until after admission to teacher education.

Elementary and Junior High School Education.

Students are considered as tentatively enrolled in the curricula for elementary and junior high school teaching until admitted to teacher education. They will submit applications for admission at the same time as students in the high school curricula. Enrollment in methods courses and education courses, except Education 123 and 232, is deferred until after admission to teacher education.

Transfer, Graduates, and Extension Students.

Transfer students, except elementary and junior high school majors, who enter with freshman or sophomore standing must be admitted to teacher education before they are permitted to earn credit in departmental methods or education courses. Elementary and junior high school majors are allowed to enroll in Education 123 and 232 prior to admission to teacher education. Transfer students with junior or senior standing may carry such courses on a tentative basis while their applications for admission to teacher education are pending, but must gain admission within three quarters of residence.

A person with a baccalaureate degree from a recognized college or university may take departmental methods courses and education courses without formal admission to teacher education but may enroll in teaching practicum only after admission to teacher education.

Teachers in service may take departmental methods courses and education courses in extension, or on a part-time basis in residence classes, without admission to teacher education but must apply for admission to teacher education upon re-registering for full-time residence work.

Undergraduate Students Reinstated After Having Been Dropped for Low Scholarship

Students who have been dropped from Eastern Illinois University and reinstated must be in attendance and earn at least 32 quarter hours

of credit before being eligible to make application for admission or readmission to teacher education.

Revocation of Admission

Under certain conditions admission to teacher education may be revoked by the Council on Teacher Education. Major causes of revocation are indicated in the pamphlet, *Admission to Teacher Education—Handbook of Information*. The pamphlet is given to each student at the time of application for admission to the teacher education program.

Late Application.

Students who have followed a program other than teacher preparation and who have earned more than 120 quarter hours may make application for admission to teacher education but must make up deficiencies in the curriculum leading to the teacher preparation program. No privileges will be accorded in the way of acceleration of either the professional or academic requirements of that curriculum or the waiving of course prerequisites.

TEACHING PRACTICUM (EDUCATION 440, 441, 442, 443, 444)

Participants in the teaching practicum must comply with all regulations and qualifications relative to admittance to teacher education.

1. *Elementary School Curriculum*. Students must have completed Education 324 and Education 328; Kindergarten option must include Education 426; Special Education majors must have completed Education 495 and 496 or 497.
2. *Junior High Curriculum*. Students must have completed Education 311, 312, and Education 313 or 314 or an approved substitute. Equivalent courses submitted must be approved by the Dean, Faculty of Education.
3. *High School and Special Area Curricula*. Students must have completed Education 332 and 333 (except students in the speech pathology and audiology curriculum who take Education 232 and 324) and any required departmental methods courses for the subjects to be assigned them. Effective for students admitted to teacher education after spring quarter, 1970, the requirements, with the exception of music, physical education, and speech pathology and audiology majors, are Education 331, 332, 333 and required departmental methods courses.
4. An overall grade-point average of 2.10 is required for application for admission to teaching practicum. Students must also have an average of 2.10 in their teaching field at the time of application.
5. The minimum requirements established by the Office of the Superintendent of Public Instruction for teaching a subject should have been completed.
6. Transfer students must have been in residence at Eastern Illinois University for at least one quarter or one summer term.
7. A physical examination must have been completed in the University Health Service during the quarter prior to the teaching practicum assignment.

- 8. Students enrolled in off-campus teaching must assume the necessary transportation, room, and board expenses.
- 9. Students who participate in full-time off-campus teaching should live in the community in which they do their teaching and are expected to observe the local school calendar.
- 10. Students engaged in the teaching practicum are expected to participate in such activities as guidance programs of the school, audio-visual programs, study hall supervision, preparation of assembly programs, field trips, dramatics, attendance at P.T.A. meetings, faculty meetings, if invited, and participate as faculty members in as many of the activities of the school and community as possible.
- 11. Attendance is expected at a series of seminar meetings related to the teaching practicum. Details are distributed through the Office of the Director of Student Teaching.

APPLICATION FOR ASSIGNMENT

Assignments for teaching practicum are made in the public schools in the area, in the public schools of the Chicago area and in the campus laboratory school.

- 1. A winter quarter meeting is scheduled by the Director of Student Teaching for all students who plan to enroll in teaching practicum during the ensuing school year. Requests for assignment received from students within ten days of this meeting have priority. Applications submitted after the winter meeting must be made at least one quarter in advance of the quarter in which teaching is desired. Assignments are made by the coordinators and approved by the Director. Students must have clearance with the Principal for any assignment in Buzzard Laboratory School.
- 2. Students should arrange for their teaching assignments before registering for other subjects. Teaching assignments take priority in the student's schedule. Registration and fees are required as with other regular coursework.
- 3. A student engaged in teaching practicum is limited to a total load of sixteen quarter hours. The number of hours of outside work permitted is restricted.

GENERAL EDUCATION REQUIREMENTS

A. *Specific All-University Requirements are:*

	<i>Qtr. Hrs.</i>
English 120, 130, 201	12
Speech 131 ¹	4
Health Education 120 ²	4
Physical Education Service Courses	6
	<hr/> 26

1 A student with an acceptable unit in a high school speech course may be exempt from Speech 131.
2 Not required of majors in home economics.

These all-university requirements should be completed within the first six quarters of residence in the University and students will not be allowed senior standing before their completion.

B. *Distribution Requirements.* The purpose of the distribution requirements is to give the student a widely-based general education by requiring him to take courses in several broad areas. Depending upon his previous background and achievement, however, the student may be exempt from some of the distribution requirements.

Exemption System. It is the policy of the University to recognize academic achievement in high school by allowing students, if they wish, to take certain exemptions from distribution requirements for acceptable high school units. An acceptable unit consists of two semesters of high school work in the same subject taken five periods each week with at least a B average. Acceptable units do not reduce the total number of hours required for graduation but they may exempt a student from some of the hours in a particular distribution, thus freeing him to take another course or courses of his own choice. Allowable exemptions for all undergraduate degrees are:

Foreign Languages. Two or more acceptable units in a single foreign language exempt the student from 12 hours of the language requirement. A student with less than two acceptable units in a single foreign language will be properly placed and will have completed 12 quarter hours of the requirement when he passes the third quarter course of the first year in a language or any higher numbered course in the language, or when he passes a qualifying examination on the first full year of the language. Regardless of the number of acceptable units, a student will have completed a 24 hour requirement when he has passed the third quarter course of the second year or a higher course or has passed a qualifying examination in the first two full years of the language.

History and Social Studies. One or more acceptable units reduce the requirement by four quarter hours. When such an exemption is taken in the Professional Degrees, the requirement of 12 quarter hours in any one subject is reduced to eight quarter hours.

Humanities. One or more acceptable units reduce the requirement by four quarter hours. B.S.Ed. candidates may use a foreign language to satisfy no more than and no less than 12 quarter hours of this requirement; see foreign language exemptions above.

Natural Sciences. Two acceptable units in a single natural science field, biological science or physical science, reduce the requirement in that field by 12 quarter hours. One acceptable unit in one field or an acceptable unit in each of the two fields reduces the requirement in the appropriate or chosen field by four quarter hours, and the requirement may be filled by at least 12 hours in the field in which the exemption is not taken plus the hours remaining to satisfy the field in which the exemption is taken. Regardless of exemptions, all students must take at least 12 hours in a single natural science

field except that students in the School of Elementary and Junior High School Teaching must take eight hours in each field.

Mathematics. One or more acceptable units in mathematics beyond the first two years of college preparatory mathematics reduce the requirement by a maximum of four quarter hours. Algebra, plane geometry, solid geometry, trigonometry, and certain courses determined by the Department of Mathematics are college preparatory courses.

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Distribution Requirements

(Note that this table is

Foreign Languages	<p>Bachelor of Arts</p> <p><i>*24 quarter hours</i></p> <p>24 hours in a single language or completion of the third quarter course of the second year or higher course. See Humanities below.</p>
History and Social Studies	<p><i>20 quarter hours</i></p> <p>8 quarter hours in history and 12 quarter hours in one or more of the social studies: economics, geography, anthropology and sociology, political science, psychology.</p>
Humanities	<p><i>16 quarter hours</i></p> <p>Total hours must be met from more than one of these subjects: art, music, literature, philosophy, speech, th. arts. Approved foreign language literature courses may not count both as literature and foreign language.</p>
Mathematics	<p><i>4 quarter hours</i></p> <p>(See page 108)</p>
Natural Sciences	<p><i>12 quarter hours</i></p> <p>12 hours in biological sciences—life sciences, botany, zoology—or 12 hours in physical sciences—chemistry, geology, physical science, physics.</p>

APPROVED COURSES FOR DISTRIBUTION REQUIREMENTS

- * The foreign language requirement may be met through presentation to the Dean of Student Academic Services satisfactory documentary evidence substantiating achievement at the two year college level in the Bachelor of Arts degree and at the first year college level in the Bachelor of Science degree in a tongue *other than the student's mother tongue*.

**for Undergraduate Degrees
based on no exemptions.)**

Bachelor of Science	Professional Degrees
<p><i>*12 quarter hours</i> 12 hours in a single foreign language or completion of the third quarter or higher course.</p>	<p>No requirement but foreign language may be used to satisfy 12 hours of humanities requirement upon completion of the third quarter or higher course.</p>
<p><i>24 quarter hours</i> Same as B.A. requirement.</p>	<p><i>20 quarter hours</i> At least 12 hrs. in one of the following: history, economics, geography, anthropology and sociology, political science, psychology. Regardless of exemptions, B.S.Ed. candidates must take 4 q. hrs. in U.S. history or U.S. government.</p>
<p><i>12 quarter hours</i> Same as B.A. requirement.</p>	<p><i>16-20 quarter hours</i> Option I: 12 hours in a foreign language plus 8 hours in art, dance, literature, music, philosophy, speech, theatre arts. Option II: A total of 16 hours in more than one of these subjects: art, dance, literature, music, philosophy, speech, theatre arts.</p>
<p><i>8 quarter hours</i> (See page 108)</p>	<p><i>4 quarter hours</i> (See page 108)</p>
<p><i>24 quarter hours</i> 12 hours in biological sciences and 12 hours in physical sciences.</p>	<p><i>12 quarter hours</i> 12 hours in either biological sciences or in physical sciences. Students in elementary and junior high sch. program must have 8 hrs. in biol. sciences and 8 hrs. in physical sciences.</p>

ARE LISTED ON THE FOLLOWING PAGE

COURSES WHICH SATISFY DISTRIBUTION REQUIREMENTS

The following list comprises the specific courses which count toward filling the general education distribution requirements. While any individual course on the list may apply to a distribution requirement, it is highly recommended that courses be taken in the sequences shown below.

BIOLOGICAL SCIENCES:

Life Sci. 100, Bot. 101, Zoo. 101
 Life Sci. 100, Zoo. 101, Bot. 101
 Life Sci. 100, Bot. 101, Bot. 102
 Life Sci. 100, Zoo. 101, Zoo. 212
 Life Sci. 100, Zoo. 101, Zoo. 225
 Life Sci. 100, Zoo. 225, Zoo. 348

HISTORY AND SOCIAL STUDIES:

Hist. 233, 234, 235, 380
 Hist. 254, 255, 256, 257
 Hist. 343, 344, 345
 Econ. 254, 255, 356
 Econ. 254, 255, 256
 Econ. 357 (for Industrial Tech. majors only)
 Geog. 150, 151 or 302, 360
 Geog. 150, 360, 361 or 362
 Geog. 150, 300, 301
 Pol. Sci. 100, 110, 111
 Pol. Sci. 220, 240, 260
 Psych. 231, 281, 282
 Psych. 231, 281, 361
 Psych. 231, 350, 352
 Psych. 231, 234, 261
 Psych. 231, 351, 353
 Soc. 271, 272, Anthro. 273
 Soc. 271, 365, 381
 Soc. Sci. 440, 441

HUMANITIES:

Art 100, 110, 111 (for Art majors and minors, Ind. Arts, and Industrial Tech. majors only)
 Art 140 (for Elem. and JHS majors only)
 Art 165, 265, 266
 Art 330
 Art 360, 361, 362
 Engl. 245, 246, 247
 Engl. 250, 251, 252, 255
 Engl. 260, 261, 262, 263
 Engl. 310, 333, 360, 379
 Engl. 336, 337, 338
 Engl. 361, 362, 363
 Engl. 380, 381, 382
 Engl. 470, 471, 472, 480

HUMANITIES—(CONTINUED)

Music 120 (for Elem. & JHS majors only)
 Music 328 (for Elem. majors only)
 Music 130, 131, 132 (for music majors and minors only)
 Music 221, 222, 225 (for Elem. majors only)
 Music 229 or 220, 323, 324
 Music 320, 321, 322
 Phil. 250, 301, 402, or 404
 Phil. 301, 305, 306
 Phil. 250, 270, 330 or 410
 PEW 396
 Speech 230, 232, 453
 Th. Arts 133, 240, 333
 Th. Arts 460, 462, 464
 Approved For. Lang. literature courses (see p. 213)
 Sequences of three one-quarter hour courses in applied music, band, orchestra, or chorus may be used to satisfy not more than 12 hours of humanities in any degree.

PHYSICAL SCIENCES:

Chem. 110, 111, 112 (for Home Ec. majors only)
 Chem. 120, 121, 122
 Chem. 150, 151, 152
 Geol. 140, 243, 245 or 244
 Physics 110, 111, 112
 Physics 121, (for speech majors and minors only)
 Physics 110, Chem. 120, Geol. 140
 Physics 130, 131, 132
 Phys. Sci. 100, 101 (for Elem. & JHS majors only)

MATHEMATICS:

Math. 122, 123, 222, 322 (for Elem. and JHS majors only)
 Math. 125, 126
 Math. 129, 210, 211
 Math. 130, 131, 132, 134, 135
 Math. 234

SPECIALIZATION AND CHOOSING A MAJOR

CHOOSING A MAJOR

Each graduate must complete a major in an academic discipline, and for some programs, must also complete a minor. Students may choose a major at any registration for their first four quarters and must choose a major by registration for their fifth quarter or by the time they have earned 68 quarter hours, whichever is earlier. In certain areas, such as elementary education, music, physical education for women, and speech correction, the decision should be made upon entering the University.

At the time of entering the University, some freshmen students will have already made a definite, considered decision concerning the discipline in which they wish to major. These students should indicate this decision on the proper forms and to their advisors. Many other freshmen, however, are not yet ready to make a firm choice of their major field of study and wish to delay this decision until they have explored several general areas of learning. Such delay is made possible by choosing, during the first three or four quarters in the University, a general program of courses, all of which are required for graduation but which do not commit the student to a definite major. Typical examples of such programs for the freshman year are:

A. *B.A. Candidates.*

English 120, English 130, Speech 131.....	12 qtr. hrs.
Natural or Physical Science.....	12 qtr. hrs.
Foreign Language.....	12 qtr. hrs.
History or Social Studies, Health Ed. 120	12 qtr. hrs.
Physical Education.....	3 qtr. hrs.

B. *B.S. Candidates.*

Speech 131, English 120, English 130.....	12 qtr. hrs.
Natural or Physical Science.....	12 qtr. hrs.
Mathematics, Health Education 120.....	12 qtr. hrs.
Foreign Language.....	12 qtr. hrs.
Physical Education.....	3 qtr. hrs.

C. *Professional Degree Candidates.*

English 120, Speech 131, English 130.....	12 qtr. hrs.
Natural or Physical Science.....	12 qtr. hrs.
Health Ed. 120, Mathematics, Humanities Subject.....	12 qtr. hrs.
History or Social Studies.....	12 qtr. hrs.
Physical Education.....	3 qtr. hrs.

SPECIALIZATION

Specializations offered in the various undergraduate degrees are shown below:

Degrees and Fields of Study**BACHELOR OF ARTS***Majors:*

Art	Music
Botany	Philosophy
Chemistry	Physical Education
Economics	Physics
English	Political Science
French	Psychology
Geography	Sociology
Geology	Spanish
German	Speech
History	Speech Pathology and Audiology
Latin	Theatre Arts
Latin American Studies	Zoology
Mathematics	

BACHELOR OF MUSIC*Options:*

Performance: (String or Wind; Keyboard; or Vocal)
 Music Theory and Composition
 Music History and Literature

BACHELOR OF SCIENCE*Majors:*

Art	Philosophy
Botany	Physical Education
Chemistry	Physics
Economics	Political Science
English	Psychology
French	Sociology
Geography	Spanish
Geology	Speech
German	Speech Pathology and Audiology
History	Theatre Arts
Latin	Zoology
Mathematics	

BACHELOR OF SCIENCE IN BUSINESS*Majors:*

Accounting	Management
Finance	Secretarial
Marketing	

Minor—Institutional Food Management

BACHELOR OF SCIENCE IN EDUCATION

Majors:

Art	Junior High School Education
Botany	Latin
Business	Latin American Studies
Chemistry	Manual Arts Therapy
Elementary Education	Mathematics
Elementary Education—Special Education	Music
Elementary Education—Speech Correction	Physical Education, Men
English	Physical Education, Women
French	Physics
Geography	Psychology
German	Social Science
History	Spanish
Home Economics	Speech
Industrial Arts	Speech Pathology and Audiology
	Theatre Arts
	Zoology

Minors:

Art	Latin
Biological Science	Library Science
Botany	Mathematics
Business	Music
Chemistry	Physical Education
English	Physics
French	Psychology
Geography	Russian
German	Safety and Driver Education
Health Education	Social Science
History	Spanish
Home Economics	Speech
Industrial Arts	Theatre Arts
Journalism	Zoology

BACHELOR OF SCIENCE IN HOME ECONOMICS

Majors:

Dietetics
Family Services
Home Economics in Business

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

Options:

Electricity and Electronics
Light Building Construction
Metalwork

BACHELOR OF SCIENCE IN RECREATION

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

These degrees are conferred upon successful completion of 190 quarter hours, including general education requirements and one of the majors outlined below.

Students who desire the B.A. or B.S. degree and who also wish to prepare for high school teaching in a single field should note that a course in U.S. history or government is required for certification and that Psychology 231 is a prerequisite for required professional education courses. These students must comply with the regulations governing admission to teacher education (page 98) and must complete the professional education course requirements for secondary teachers (page 139). Appropriate teaching fields bear an asterisk and curricula pertaining to teacher preparation are shown below the regular B.A. or B.S. major.

GENERAL EDUCATION REQUIREMENTS (see page 102)

Art

Major—Art Studio:

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, and 310	48 qtr. hrs.
Sixteen quarter hours in advanced courses selected from one of the following areas: (1) art history; (2) painting, drawing, and printmaking; (3) sculpture and ceramics; (4) crafts—weaving, ceramics, jewelry; (5) commercial art and lettering	16
Total	64 qtr. hrs.

Major—Art History (B.A. degree only):

Art 160, 260, 261, 262, 363, 364, 365, and 475	32 qtr. hrs.
Art 165, 265, and 266; or any three studio courses	12
Electives chosen from: Art 366, 367, 368, 369, 469, 476, or 477	20
Total	64 qtr. hrs.

Botany

Major:

Life Science 100; Botany 101, 102, 229, 230, 254	24 qtr. hrs.
Two courses from Group I	8
Two courses from Group II	8
Four courses from Group I, II, or III	16
	56 qtr. hrs.

Correlative courses:

Zoology 101	4
Chemistry 150, 151, 152 (or 120, 121,	

151, 152) ¹ ; 243	16
Either Geography 141 or Geology 140	4
Electives in chemistry, geology, mathematics, physics, or zoology beyond the above require- ments of correlative courses and courses in mathematics used to satisfy general education distribution requirements	12
	<hr/> 36 qtr. hrs.
Total, including correlative courses	92 qtr. hrs.
(Major GPA based on Life Science 100 and botany courses only.)	

Botany*Major:**

Candidates preparing for teacher certification must take:

Life Science 100, 340	8 qtr. hrs.
Botany 101, 102, 229, 230, 254	20
Two courses from Group I	8
Two courses from Group II	8
Four courses from Group I, II, or III	16
	<hr/> 60 qtr. hrs.

Correlative courses:

Zoology 101 and two electives in zoology	12 qtr. hrs.
Chemistry 150, 151, 152 (or 120, 121, 151, 152) ² ; 243	16
Geography 141 or Geology 140	4
Elective in chemistry, geology, mathematics, phys- ics, or zoology beyond above requirements and courses in mathematics used to satisfy general education distribution requirements	4
	<hr/> 36 qtr. hrs.

Total including correlative courses	96 qtr. hrs.
(Major GPA based on Life Science 100, 340, and botany courses only.)	

Chemistry**Major:**

Chemistry 150 (or 120 and 121), 151, 152	12 qtr. hrs.
Chemistry 283, 284, 285, 330, 400, 401, 461, 470, 491,	

¹ If this sequence is chosen, the extra course will count as one of the three electives in physical science, mathematics, or zoology.
² If this sequence is chosen, the extra course will count as the elective in physical science, mathematics, or zoology.

492, 493	42
Electives chosen from Chemistry 346, 403, 420, 421, 422, 423, 481, 485, 494	10
	<hr/>
	64 qtr. hrs.
Correlative courses:	
Mathematics 134, 135, 235, 236	16 qtr. hrs.
Physics 130, 131, 132	12
	<hr/>
	28 qtr. hrs.
Total, including correlative courses	92 qtr. hrs.
(Major GPA based on chemistry courses only.)	

***Chemistry**

Major:

Candidates preparing for teacher certification must take:	
Chemistry 150 (or 120 & 121), 151, 152	12 qtr. hrs.
Chemistry 283, 284, 285, 330, 342, 400, 401, 461, 470, 491, 492, 493	43
Physical Science 340	4
Electives chosen from Chemistry 346, 403, 420, 421, 422, 423, 481, 485, 494	10
	<hr/>
	69 qtr. hrs.
Correlative courses:	
Mathematics 134, 135, 235, 236	16
Physics 130, 131, 132	12
	<hr/>
	28 qtr. hrs.
Total, including correlative courses	97 qtr. hrs.
(Major GPA based on Physical Science 340 and chem- istry courses only.)	

Economics

Major:

Economics courses including 460, 461, 462	48 qtr. hrs.
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English

Major:

Courses in English (exclusive of English 120, 130, 201, 322, 340, 459) so selected that each of the twelve groups is represented and with a minimum of four courses from one group	60 qtr. hrs.
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Note: The twelve groups are listed on page 205, and are indicated in the course descriptions.

***English**

Major:

Candidates preparing for teacher certification must take:
 Courses in English (exclusive of English 120, 130, 201, 322, 340, 459) selected to represent each of the twelve groups, with a minimum of four courses from one group. Group I must include both English 126 and 226;
 Group II must include English 224 or 355 or 356 60 qtr. hrs.
 English 340 4
 Total 64 qtr. hrs.

Foreign Language

Major (French, German, Latin, Spanish):

Courses in one language more advanced than the first
 twenty quarter hours of college work in that language 48 qtr. hrs.

***Foreign Language—French**

Major:

Candidates preparing for teacher certification must take:
 French 330, 331, 332, 340 16 qtr. hrs.
 Electives chosen from French 232, 350, 351, 352, 410, 411,
 412, 456, 457, 458, 510, 511, 512 36
 52 qtr. hrs.
 Correlative courses:
 History 233 or 235; 256 or 257 8 qtr. hrs.
 Total, including correlative courses 60 qtr. hrs.
 (Major GPA based on French courses only.)

***Foreign Language—German**

Major:

Candidates preparing for teacher certification must take:
 German 340, 354, 361, 410 16 qtr. hrs.
 Electives chosen from German 235, 353, 355, 362, 363, 411,
 412, 453, 454, 510, 511, 512 36
 52 qtr. hrs.

Correlative courses:

History 235, 257 8 qtr. hrs.

Total, including correlative courses 60 qtr. hrs.
 (Major GPA based on German courses only.)

***Foreign Language—Latin**

Major:

Candidates preparing for teacher certification must take:

Electives chosen from Latin 222, 320, 321, 322, 330, 331, 332,
 433, 434, 435, 450, 451, 452, 510, 511, 512 48 qtr. hrs.
 Latin 340 4
 52 qtr. hrs.

Correlative courses:

History 233 or 234 or 235; 254 8 qtr. hrs.

Total, including correlative courses 60 qtr. hrs.
 (Major GPA based on Latin courses only.)

***Foreign Language—Spanish**

Major:

Candidates preparing for teacher certification must take:

Spanish 327, 340, 410, 415 16 qtr. hrs.
 Electives chosen from Spanish 232, 321, 322, 325, 326, 411,
 456, 457, 458, 510, 511, 512 36
 52 qtr. hrs.

Correlative courses:

History 233, 234 8 qtr. hrs.

Total, including correlative courses 60 qtr. hrs.
 (Major GPA based on Spanish courses only.)

Geography

Major:

From Geology 140, Geography 141, 142 4 or 8 qtr. hrs.
 Geography 150 4
 Geography 151 or 302; one additional course in regional
 geography 8
 Geography 360 or 362 4
 Geography 380, 490 8
 Electives in geography approved by the head of the de-
 partment, to include at least 8 hours in courses
 numbered 300 or above 20 or 16

Total 48 qtr. hrs.
 (Major GPA based on geography and geology courses
 only.)

***Geography**

Major:

Candidates preparing for teacher certification must take:

Geography 141 or 142, 150, 151 or 302, 340, 360 or 362, 380, 490	28	qtr. hrs.
One course in regional geography	4	
Electives in geography approved by the department head (must include at least 8 q. hrs. in courses numbered 300 or above)	20	
	52	qtr. hrs.

Correlative courses:

Economics 254, 255	8	qtr. hrs.
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Total, including correlative courses	60	qtr. hrs.
(Major GPA based on geography courses only.)		

Geology

Major:

Geology 140, 243, 244, 245, 343, 344, 345, 449	32	qtr. hrs.
Electives chosen from Geology 346, 440, 441, 445, 447, Geography 242, 380, 480, 490	16	
	48	qtr. hrs.

Correlative courses:

Chemistry 120, 121, 122; or 150, 151, 152	12	qtr. hrs.
Life Science 100, Botany 101, Zoology 101	12	
Physics 130, and 131 or 132	8	
Mathematics 130, 131, 134	12	

	44	qtr. hrs.
Total, including correlative courses	92	qtr. hrs.
(Major GPA based on geography and geology courses only.)		

History

Major:

History 233, 234, 235, 254, 255, 256, 257	28	qtr. hrs.
Electives in history numbered above 300	28	qtr. hrs.
Total	56	qtr. hrs.

***History**

Major:

Candidates preparing for teacher certification must take:

History 233, 234, 235, 254, 255, 256, 257	28 qtr. hrs.
Electives in history numbered 300 or above to include at least 8 q. hrs. in U.S. and 8 q. hrs. in non-U.S. history ..	28
Social Science 340	4
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Total	60 qtr. hrs.

(Major GPA based on Social Science 340 and history courses only.)

Latin American Studies

Major: (Interdepartmental major)

History 281, 282, 464, 465	16 qtr. hrs.
Courses chosen from: Anthropology 360; Economics 490; Geography 351, 451; Political Science 333, 493; a sociology course approved by the student's advisor	20
Option I or Option II	12-24
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Total	48-60 qtr. hrs.

Option I—One Latin American Language Spanish (or Portuguese, when offered) at the 300 or higher level 12 qtr. hrs.

Option II—Two Latin American Languages Spanish and Portuguese (when offered) twelve quarter hours in each, all at the 200 or higher level 24 qtr. hrs.

(Major GPA based on specific required courses and all Latin American language courses. The total required hours may exceed the minimum depending upon additional courses taken to meet prerequisites.)

Mathematics

Major:

Mathematics 134, 135, 235, 236, 237, 344, 353, 354; 232 or 231	33 or 36 qtr. hrs.
Electives chosen from Mathematics 327, 350, 351, 357, 449, 455, 458, 460, 461, 470, 471, 491, including at least two of the sequences 350-351, 460-461, 470-471	24
<hr/>	
Total	57 or 60 qtr. hrs.

***Mathematics**

Major:

Candidates preparing for teacher certification must take:

Mathematics 134, 135; 232 or 231; 235, 236, 237, 327, 328, 340, 344, 353, 354, 470, 471	53 or 56 qtr. hrs.
One of the following sequences: Mathematics 350-351, or 460-461	8
Total	61 or 64 qtr. hrs.

Music

Major: (for B.A. degree only)

Music 130, 131, 132, 230, 231, 232, 347 or 455, 351, 352, 353, 447	44 qtr. hrs.
Studies in performance and composition (applied music)	12
Electives in music	4
Minimum ensemble requirement	6
(A maximum of nine quarter hours may be submitted toward graduation.)	
Total	66 qtr. hrs.

Philosophy

Major:

Philosophy 250, 270, 301, 305, 306, and 448	24 qtr. hrs.
Electives in philosophy approved by the department	24
Total	48 qtr. hrs.

Physical Education

Major:

Electives chosen from PEM 120, 121, 150, 228, 244, 351, 431, 432, 433, 470, 521, 523, Health Education 131, PEW 132, 235, 336	48 qtr. hrs.
(Major GPA based on physical education courses only.)	

Physics

Major:

Physics 130, 131, 132	12 qtr. hrs.
Physics 236, 239, 240, 341, 342, 466, 467	28
Electives in physics numbered 200 or above	16
Total	56 qtr. hrs.
Mathematics courses including differential equations or	

advanced calculus are prerequisite to advanced work in physics. At least twelve quarter hours in chemistry is desirable.

(Major GPA based on physics courses only.)

*Physics

Major:

Candidates preparing for teacher certification must take:

Physics 130, 131, 132, 236, 239, 240, 341, 342, 466, 467	40 qtr. hrs.
Electives in physics numbered 200 or above	16
Physical Science 340	4
	<hr/>
	60 qtr. hrs.

Correlative courses:

Mathematics 134, 135, 235, 236, 237, and two of	
Mathematics 350, 351, 460, 461	28 qtr. hrs.

Total, including correlative courses 88 qtr. hrs.

(Major GPA based on Physical Science 340 and physics courses only.)

Political Science

Major:

Political Science 100, 110, 111, 200, 220, 240, 260, 350, 495 ..	32 qtr. hrs.
One of Political Science 330, 331, 332, 333, 334, 335, 336, 480	4
One of Political Science 371, 372, 373, 374, 475	4
One of Political Science 490, 491, 492, 493	4
Electives in political science	12
	<hr/>
Total	56 qtr. hrs.

*Political Science

Major:

Candidates preparing for teacher certification must take:

Political Science 100, 110, 111, 200, 220, 240, 260, 350, 495 ..	32 qtr. hrs.
One of Political Science 330, 331, 332, 333, 334, 335, 336, 480 ..	4
One of Political Science 371, 372, 373, 374, 475	4
One of Political Science 490, 491, 492, 493	4
Electives in political science	12
Social Science 340	4
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	60 qtr. hrs.

Correlative courses:

Electives in U.S. history	12 qtr. hrs.
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Total, including correlative courses 72 qtr. hrs.

(Major GPA based on Social Science 340 and political science courses only.)

Psychology

Major:

Psychology 231, 234, 261, 281	16 qtr. hrs.
Electives in psychology approved by the head of the department	32
Total	48 qtr. hrs.

***Psychology**

Major:

Candidates preparing for teacher certification must take:

Psychology 231, 234, 261, 281, 340	20 qtr. hrs.
Electives in psychology approved by the department head	32
Total	52 qtr. hrs.

Sociology

Major:

Sociology 271, 272, 452, 461, 490 or 491; Anthropology 273	24 qtr. hrs.
Electives in sociology approved by the head of the department	24
Total	48 qtr. hrs.
(Major GPA based on Anthropology 273 and sociology courses only.)	

Speech

Major:

Theatre Arts 132, 133	8 qtr. hrs.
Electives in speech approved by the head of the department	40
Total	48 qtr. hrs.
(Major GPA based on Theatre Arts 132, 133, and speech courses only.)	

***Speech**

Major:

Candidates preparing for teacher certification must take:

Three of the following: Speech 101, 102, 103, 301, 302, 303 ..	3 qtr. hrs.
Speech 230, 232, 234, 252, 340	20
One of the following options:	

a. Three courses from Speech 320, 453, 470, 480

b. Three courses from Speech 470; 352 or 452; 320 or 480

c. Three courses from Speech 352, 452, 453, 470, 490	12
Electives in speech approved by the department head	8
	<hr/>
	43 qtr. hrs.

Correlative courses:

Theatre Arts 132, 133, 257, 445	16 qtr. hrs.
	<hr/>
Total, including correlative courses	59 qtr. hrs.

(Major GPA based on Theatre Arts 132, 133, 257, 445,
and speech courses only.)

Speech Pathology and Audiology

Major:

Speech Pathology and Audiology 254, 255, 260, 262, 263, 362, 402, 403, 405, 406, 408	44 qtr. hrs.
Speech Pathology and Audiology 457	4
Theatre Arts 132	4
	<hr/>
Total	52 qtr. hrs.

(Major GPA based on Theatre Arts 132 and speech
pathology and audiology courses only.)

Theatre Arts

Major:

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 445, 460, 462, 464	43 qtr. hrs.
Electives in theatre arts	8
	<hr/>
Total	51 qtr. hrs.

*Theatre Arts

Major:

Candidates preparing for teacher certification must take:

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 357, 358, 445, 460, 462, 464	51 qtr. hrs.
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Correlative courses:

Speech 232, 234, 340	12 qtr. hrs.
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Total, including correlative courses	63 qtr. hrs.
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(Major GPA based on Speech 232, 234, 340, and theatre
arts courses only.)

Zoology**Major:**

Life Science 100	4 qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445, 453	36
Electives in zoology	12
	<hr/>
	52 qtr. hrs.

Correlative courses:

Botany 101	4 qtr. hrs.
Chemistry 150, 151, 152 (or 120, 121, 151, 152*), 243 ..	16
Electives in chemistry, mathematics, or physics beyond the required sixteen quarter hours in chemistry and the course or courses in mathe- matics used to satisfy the general education dis- tribution requirements	8
	<hr/>
	28 qtr. hrs.

Total, including correlative courses	80 qtr. hrs.
(Major GPA based on Life Science 100 and zoology courses only.)	

Zoology*Major:**

Candidates preparing for teacher certification must take:

Life Science 100, 340	8 qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445, 453	36
Electives in advanced zoology courses	12
	<hr/>
	56 qtr. hrs.

Correlative courses:

Botany 101, and two electives in botany	12 qtr. hrs.
Chemistry 150, 151, 152 (or 120, 121, 151, 152*); and Chemistry 243	16
Electives in chemistry, mathematics, or physics be- yond above requirements and courses in mathe- matics used to satisfy general education dis- tribution requirements	8
	<hr/>
	36 qtr. hrs.

Total, including correlative courses	92 qtr. hrs.
(Major GPA based on Life Science 100, 340, and zoology courses only.)	

* If this sequence is chosen, the extra course will count as one of the two electives in physical science or mathematics.

BACHELOR OF MUSIC

The degree, Bachelor of Music, is conferred upon completion of 190 quarter hours, including courses which satisfy two sets of requirements—general education requirements and specialization.

General Education Requirements* (see page 102) --- 66 qtr. hrs.

Specialization

The specialization for the degree, Bachelor of Music, provides for five options: Performance in String or Wind Instrument, Keyboard, Vocal, Music Theory-Composition, and Music History-Literature. The core requirements are:

Music 130, 131, 132, 230, 231, 232	24 qtr. hrs
Music 447, 448	6
Music 151, 152	4
Music 351, 352, 353	12
Music 250, 251, or 252	9 (minimum)
Total	55 qtr. hrs.

Option I—Performance in String or Wind Instrument

Primary Instrument	48 qtr. hrs.
Music 126, 127, 128	3
Music 347, 348	8
Music 381	4
Electives in Music	6
Total	69 qtr. hrs.

Option II—Performance in Keyboard

(1) Piano Primary—Music 018	48 qtr. hrs.
Music 246, 247, 248	3
Music 362	4
Electives in music	14
Total	69 qtr. hrs.
(2) Organ Primary—Music 019	48 qtr. hrs.
Music 246, 247, 248	3
Music 461, 462	8
Music 464	4
Electives in music	6
Total	69 qtr. hrs.

Option III—Performance in Vocal

Primary Voice—Music 001	48 qtr. hrs.
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* General Requirements 78 qtr. hrs.
 Humanities Requirement (satisfied by music) 12 qtr. hrs.
66 qtr. hrs.

Music 126, 127, 128, 226, 227, 228	6
Music 243, 244, 245	3
Electives chosen from Music 372, 380, 467, 468, 469	12

Total 69 qtr. hrs.

Option IV—Music Theory-Composition

Primary Instrument or Voice ¹	24 qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6
Music 461, 462	8
Music 347, 348	8
Music 021 and approved electives in music	20
Electives in music	3

Total 69 qtr. hrs.

Option V—Music History-Literature

Primary Instrument or Voice ²	24 qtr. hrs.
Music 126, 127, 128, 226, 227, 228	6
Approved electives in music history-literature	20
Music 347, 348	8
Music 461, 462	8
Electives in music	3

Total 69 qtr. hrs.

Note: A maximum of nine quarter hours in ensemble credit may be submitted toward graduation requirements. Performance and composition majors are encouraged to participate in at least one ensemble during each quarter of residence.

BACHELOR OF SCIENCE IN BUSINESS

The degree, Bachelor of Science in Business, is conferred upon successful completion of a curriculum consisting of two sets of requirements, general education requirements and specialization, together with elective courses.

General Education Requirements (see page 102)

Specialization

Marketing 247; Accounting 230, 231, 232; Management 230, 251, 346, 347, 370, 381	40 qtr. hrs.
Mathematics 128, 129, 210, 211	16
Courses in the major	24
Total	80 qtr. hrs.

Note: Twelve quarter hours of accounting are required of all majors.

¹ If piano should be the primary applied, then voice or another instrument may be substituted for the secondary piano requirement (6 qtr. hrs.).

² If piano should be the primary applied, then voice, another instrument, or music electives may be substituted for the secondary piano requirement.

Note: Economics 254, 255, 256 (required as part of the history-social science general requirement) 12 qtr. hrs.

Majors:

Accounting: Accounting 354, 355, 356, 360, 461, 464	24 qtr. hrs.
Finance: Management 371, 372, 420, 484; plus two of the following: Management 390, 439, 483	24 qtr. hrs.
Management*: Management 345, 333; plus one of the following sequences: (382, 434, 435, 436) or (436, 437, 438, 445) or (231, 331, 332, 333)	24 qtr. hrs.
Marketing: Marketing 248, 249, 250, 370, 486, 487	24 qtr. hrs.
Secretarial: Business Education 223, 224, 225; 322 or 323; 453; Management 383	24 qtr. hrs.

*Minor: (The School of Business and the School of Home Economics cooperate to offer a minor in Institutional Foods Management for business students with a major in Management. The Management major who fulfills his science requirement with courses marked (1) below, and who fulfills his free electives with courses marked (2) below, will meet the requirements for a minor in Institutional Foods Management:

(1) Chemistry 110, 111, 112, and Botany 234

(2) Home Economics 210, 211, 233, 303, 360, 411; Management 434 and 490

Electives

The general requirements and specialization must be supplemented by elective courses to bring the total to 190 quarter hours. Courses in professional education and methods of teaching are not acceptable as elective courses. The electives must be chosen so that at least 92 quarter hours of the 190 submitted for graduation are in courses outside the School of Business.

(Major GPA based on: (a) all business courses taken and (b) the six courses constituting the specific major.)

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, is conferred upon successful completion of three sets of requirements—general education requirements, professional education requirements, and specialization requirements. Certain courses may be included in two or more sets of requirements.

General Education Requirements (see page 102)

Curriculum for Elementary School Teachers

This curriculum offers a choice of one of three options: Early Childhood (kindergarten and grades one, two, and three); Intermediate (grades four, five, and six); and Comprehensive (grades one through eight).

One subject area of 16 to 24 quarter hours and another of 12 quarter hours

must be selected. Areas of Concentration consist of courses *in addition to general education requirements*. The following combinations of Areas of Concentration are not permitted: Social Studies and Geography; Social Studies and History.

REQUIRED COURSES

The following constitutes the list of requirements (including the all-University requirements) in the elementary curriculum. The student and the advisor must cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Life Science 100; Botany 101 or Zoology 101	8
Education 123	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443	12
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History elective	4
Mathematics (122 ¹ , 123 ¹ , 322) or (222 ² , 322)	8-10
Music 120, 328	8
Womens Physical Education 360	2
Physical Science 100 or Physics 130	4
Physical Science 101 or Chemistry 120 or 150	4
Psychology 231	4
Speech 131	4
Subject Concentration Area I	16
Subject Concentration Area II	12
Physical Education service courses	6
Humanities (12 qtr. hrs. of a foreign language or 4 qtr. hrs. of Humanities Courses listed on page 108)	4-12
Special requirements for the chosen option below	6-14

Electives, as needed, to complete 190 qtr. hrs.

Students may offer as elective credit 4 quarter hours earned in choral ensemble.

SPECIAL REQUIREMENTS OF OPTIONS

Early Childhood Education

Mathematics 320; Art 244 or Industrial Arts 224; English 322.

Education 426 is also required if a student wishes to do student teaching in kindergarten.

Intermediate

Mathematics 321; Industrial Arts 225 or Art 244.

1 Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.
2 Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

Comprehensive

Mathematics 320 or 321, or preferably both; Art 244 or Industrial Arts 224 or 225.

SUBJECT AREAS OF CONCENTRATION

Areas of concentration consist of courses *taken in addition to the General Education Requirements*. No deviation from courses indicated here is permitted without approval of the Dean of Student Academic Services.

Art

Area I: Choose Option A or B

- Option A. When Art 244 is used to meet professional education requirements: Art 309, 319, and 8 quarter hours electives in art. (Art 465 is recommended as an elective.) Total, 16 quarter hours.
- Option B. When Industrial Arts 224 or 225 is used to meet professional education requirements: Art 244, 309, 319, and 4 quarter hours elective in art. (Art 465 is recommended as the elective.) Total, 16 quarter hours.

Area II: Choose Option A or B

- Option A. When Art 244 is used to meet professional education requirements: Art 309, 319, and 4 quarter hours art elective. (Art 465 is recommended as the elective.) Total, 12 quarter hours.
- Option B. When Industrial Arts 224 or 225 is used to meet professional education requirements: Art 244, 309, and 319. Total, 12 quarter hours.

Biological Science

Area I: Botany 101* or Zoology 101*; Botany 102, Zoology 338, and 4 quarter hours elective in either botany or zoology. Total, 16 quarter hours.

Area II: Botany 101* or Zoology 101*; Botany 102, Zoology 338. Total, 12 quarter hours.

*Select course not used to satisfy General Education Requirement.

English

Area I: Four quarter hours from English 126, 226, 364; four quarter hours from English 246, 247; four quarter hours from English 250, 251, 252; four quarter hours elective in English. (Recommended English electives: 250, 251, 252, 262, 263, 270, 275, 310, 355, 356, 360, 364, 370.) Total, 16 quarter hours.

Area II: Four quarter hours from English 126, 226, 364; four quarter hours from English 246, 247; four quarter hours from English 250, 251, 252. Total, 12 quarter hours.

Foreign Language

Area I: 16 quarter hours in a single foreign language.

Area II: 12 quarter hours in a single foreign language.

Note: Placement in a foreign language is described in the foreign language section of the course descriptions, Section X.

Foreign Language in The Elementary School

- Area I: 28 quarter hours in either French or Spanish, including French 340 and II: or Spanish 340 respectively. Total, 28 quarter hours.

Geography

- Area I: Four quarter hours from Geography 151, 302, 450; Geography 300; eight quarter hours from electives in geography. Total, 16 qtr. hrs.
Area II: Four quarter hours from Geography 151, 302, 450; Geography 300; four quarter hours in electives in geography. Total, 12 quarter hours.

History

- Area I: 16 quarter hours *beyond* that taken to satisfy General Education Requirements. The 16 hours are to be selected according to the following pattern:
A. Complete a U.S. history sequence, part of which will be taken to meet general education requirements (History 233, 234, 235) or (History 233, 234, 460, 461).
B. Four quarter hours from: History 254, 255, 256, 257, 486.
C. Remaining hours chosen from upper division electives in history. (Recommended electives in History: 378, 379, 380, 464, 465, 486, 496, 499.)
Area II: Four quarter hours from History 233, 234, 235; four quarter hours from History 254, 255, 256, 257, 486; four quarter hours chosen from upper division electives in history. (Suggested electives listed in Area I.) Total, 12 quarter hours.

Home Economics—Health Education

- Area II: Home Economics 303; Health Education 320; four quarter hours from Home Economics 131, 300, Health Education 330. Total, 12 quarter hours.

Industrial Arts

- Area I: Industrial Arts 224, 225, and eight quarter hours electives in industrial arts. Total, 16 quarter hours.
Area II: Industrial Arts 224, 225, and four quarter hours elective in industrial arts. Total, 12 quarter hours.

Kindergarten Education

- Area II: Education 326, 426; four quarter hours from Art 244, Home Economics 348, Music 126, 127, 128, 226, Physical Education Women 362, or Speech Pathology 460. Total, 12 quarter hours.

Library Science

- Area I: Library Science 320, 449, 450, 460, 470. Total, 20 quarter hours.
Area II: Twelve quarter hours chosen from Library 320, 330, 332, 460.

Mathematics

- Area I: Mathematics 130, 131, 134, 327. Total, 16 quarter hours.

Area II: Mathematics 130, 131, 134. Total, 12 quarter hours.

Note: Students exempt from Mathematics 130 and/or 131 may select Mathematics 135 or any appropriate course numbered 200 or above.

Mathematics—Science

Area I: Eight quarter hours from Mathematics 130, 131, 134, 327; Physics 110; Chemistry 121; Geography 300 or 301; Botany 101* or Zoology 101*; Botany 102 or Zoology 333. Total, 28 quarter hours.

*Select course not used to satisfy General Education Requirements.

Music

Area I: Music 221, 222, 225; four quarter hours from Music 126, 127, 128, 136, 137, 138, 226, 227, 223, 236, 237, 238, 320, 321, 322. Total, 16 quarter hours.

Area II: Music 221, 222, 225. Total, 12 quarter hours.

Physical Education

Area I: P.E.W. 361, 362, 363, and 4 quarter hours from Health Education 131, P.E.M. 351, P.E.W. 132, 356, 413. Total, 16 quarter hours.

Area II: Physical Education (W) 361, 362, 363. Total, 12 quarter hours.

Physical Science

Area I: (Chemistry 121 and 122) *or* (Chemistry 150 and 151); (Physics 110 and 111) *or* (Physics 130 and 131). Total, 16 quarter hours.

Area II: Twelve quarter hours from courses listed for Area I with both Chemistry and Physics being represented. Total, 12 quarter hours.

Note: Students choosing this concentration should take Chemistry 120 or 150 rather than Physical Science 101; and they should take Physics 130 rather than Physical Science 100.

Psychology

Area II: 12 quarter hours from Psychology 234, 350, 351, 360, 450, 455, 457. Total, 12 quarter hours.

Social Studies

Area I: Sixteen quarter hours from the following *with at least three disciplines* being represented: Anthropology 273; Economics 254, 255, 256; Geography 300; Geography 151 or 302 or 450; Political Science 100, 110, 111, 220, 260, 320, 321, 364, 372, 373; Psychology 457; Sociology 271, 272, 368, 370, 381, 425, 455, 473, 474, 475. Total, 16 quarter hours.

Area II: Courses listed in Area I *with at least two disciplines* being represented. Total, 12 quarter hours.

Special Education—Learning Disabilities

Area I: Psychology 450, 455; Speech Path. & Aud. 460 or 260; Education 497, 498, 499. Total, 24 quarter hours.

Note: Successful completion of this area with the addition of 16 quarter hours of student teaching (8 quarter hours in elementary and 8 quarter hours in learning disabilities) will result in certification as a teacher of children with learning disabilities.

Speech

Area I: Sixteen quarter hours from: Theatre Arts 132, 133, 333, 431, Speech 230, 232, 330, 453. Total, 16 quarter hours.

Area II: Twelve quarter hours from: Theatre Arts 132, 133, 333, 431, Speech 230, 232, 330. Total, 12 quarter hours.

Speech Pathology and Audiology

Area II: Speech Pathology and Audiology 255, 262, 460. Total, 12 quarter hours.

Elementary Education—Special Education

Instead of an Area I and II, students interested in special education may select programs involving the educable mentally handicapped and/or learning disabilities.

Elementary Education—Special Education

Successful completion of this program results in certification both as an elementary teacher and as a special education teacher in the area of the Educable Mentally Handicapped or Learning Disabilities. Sixteen quarter hours of student teaching divided equally between elementary education and special education is required.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and advisor will cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Education 123	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443, 444	16
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History Elective	4
Life Science 100; Zoology 101	8
Mathematics (122 ¹ , 123 ¹ , 332) or (222 ² , 322)	8-10
Music 120, 328	8
Physical Education, Women, 360	2

¹ Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.

² Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

Physical Science 100 or Physics 130	4
Physical Science 101 or Chemistry 120 or Chemistry 150	4
Psychology 231	4
Speech 131	4
Physical Education service courses	6
Humanities (12 quarter hours of foreign language or 4 quarter hours of humanities courses listed on page 108)	4-12
Courses included in one of the three options listed below	6-14
Special Education requirements listed below	36
Electives, as needed, to complete 190 quarter hours.	

SPECIAL REQUIREMENTS OF OPTIONS

Early Childhood Education

Mathematics 320; Art 244 or Industrial Arts 224; English 322. Education 426 is also required if a student wishes to do student teaching in Kindergarten.

Intermediate

Mathematics 321; Industrial Arts 225 or Art 244.

Comprehensive

Mathematics 320 or 321, or preferably both; Art 244 or Industrial Arts 224 or 225.

SPECIAL EDUCATION REQUIREMENTS

Students will select one of the following sets of requirements:

Educable Mentally Handicapped

Speech Pathology and Audiology 260 or 460; Psychology 360, 450, 455; Education 495, 496; 12 quarter hours from (Education 491, Home Economics 347, Health Education 320, Industrial Arts 224 or 225, Psychology 457). Total, 36 quarter hours.

Learning Disabilities

Speech Pathology and Audiology 260, or 460; Psychology 450, 455; Education 497, 498, 499; 12 quarter hours from (Education 491, Home Economics 347, Health Education 320, Industrial Arts 224 or 225, Psychology 457). Total, 36 quarter hours.

Curriculum For Elementary Education—Speech Correction

This curriculum requires 200 quarter hours less possible exemptions from the general requirements; therefore, students may expect to take more than twelve quarters to complete the program. Successful completion results in certification both as an elementary teacher and as a speech correctionist.

REQUIRED COURSES

The following constitutes the list of requirements in this curriculum. The student and advisor will cooperate in planning the sequence.

Art 140	4 qtr. hrs.
Art 244 or Industrial Arts 224 or 225	4
Education 123	2
Education 232, 324, 327, 328, 329, 445	24
Education 441, 442, 443	12
English 120, 130, 201	12
Geography 150	4
Health Education 120	4
History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History elective	4
Life Science 100, Zoology 101, 225	12
Mathematics (121 ¹ , 123 ¹ , 322) or (222 ² , 322)	8-10
Mathematics 320 or 321	2
Music 120, 328	8
Physical Education, Women, 360	2
Physical Science 100 or Physics 130	4
Physical Science 101 or Chemistry 120 or Chemistry 150	4
Psychology 231, 450, 451	12
Speech 131	4
Speech Pathology and Audiology 254, 255, 260, 262, 263, 362, 402, 403, 405, 406, 408, 457	48
Theatre Arts 132	4
Physical Education service courses	6
Humanities (12 quarter hours of foreign language or 4 quarter hours of humanities courses listed on page 108)	4-12
Electives, if necessary, to complete a minimum of 190 quarter hours.	

Curriculum for Junior High School Teachers

This curriculum is intended to prepare teachers for grades seven, eight, and nine. The student must choose a major field of specialization and a minor field of specialization, or three minor fields of specialization.

REQUIRED COURSES

The following constitutes the list of requirements. The student and the advisor cooperate in planning the sequence.

Education 123	2 qtr. hrs.
Education 232, 311, 312, 445	16
Education 313 or 314 or appropriate methods courses approved by the Dean of the Faculty of Education	4-8
Education 441, 442, 443	12
English 120, 130, 201	12
Geography 150	4
Health Education 120	4

1 Required of students who score below the 75th percentile on the mathematics section of the ACT test or have credit for less than three years of high school mathematics.

2 Required of students who score at or above the 75th percentile on the mathematics section of the ACT test and have credit for three years of high school mathematics.

History 233 or 234 or 235	4
History 254 or 255 or 256 or 257	4
History elective	4
Life Science 100; Botany 101 or Zoology 101	8
Mathematics 125	4
Physical Science 100 or Physics 130	4
Physical Science 101 or Chemistry 120 or Chemistry 150	4
Psychology 231, 352	8
Speech 131	4
Physical Education service courses	6
Major subject field (48 quarter hours) and a minor subject field (30-36 quarter hours), or three minor fields.	78-108
Humanities (12 quarter hours foreign language <i>and</i> 8 quarter hours humanities courses from page 108) <i>or</i> (16 quarter hours of humanities courses from page 108)	16-20
Elective courses, if necessary, to complete a minimum of 190 quarter hours.	

SUBJECT FIELD OF SPECIALIZATION

Art

Field II: Art 140, 244, 309, 319, 465; select sixteen quarter hours in art. Total, 36 quarter hours.

Biological Science

Field I: Life Science 100, Botany 101, 102, 230, 234; four quarter hours elective in botany; Zoology 101, 212, 336, 338; 348 or 350; four quarter hours elected from botany or zoology. Total, 48 quarter hours.

Field II: Life Science 100, Botany 101, 102, 234; four quarter hours elective in botany; Zoology 101, 333, 348 or 350; four quarter hours elective in zoology. Total, 36 quarter hours.

English

Field I: English 120, 130, 201; 250 or another American literature course; Speech 131; English 126, 226; 246 or 247; 336 or 337 or 338; Library Science 332; eight quarter hours of upper division English electives. Total, 48 quarter hours.

Field II: English 120, 130, 201; 250 or equivalent American literature course; Speech 131; English 126; 246 or 247; Library Science 332; four quarter hours English electives. (Recommended electives, English 226 or 364.) Total, 36 quarter hours.

French

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: French 130, 131, 132, 230, 231, 232, 350, 351, 352, 340; eight quarter hours French electives selected from 400 level courses. Total, 48 quarter hours.

Field II: French 130, 131, 132, 230, 231, 232, 330, 331, 340. Total, 36 quarter hours.

German

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: German 130, 131, 132, 233, 234, 235, 340; (353, 354, 355) or (361, 362, 363); eight quarter hours selected from 400 level courses. Total, 48 quarter hours.

Field II: German 130, 131, 132, 233, 234, 235, 340, 353, 354. Total, 36 quarter hours.

Latin

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: Latin 120, 121, 122, 220, 221, 222; (320, 321, 322) or (330, 331, 332); 340; eight quarter hours from 400 level courses. Total, 48 quarter hours.

Field II: Latin 120, 121, 122, 220, 221, 222; (320, 321) or (330, 331); 340. Total, 36 quarter hours.

Russian

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field II: Russian 140, 141, 142, 250, 251, 340, 360, 361, 363. Total, 36 quarter hours.

Spanish

A student with high school foreign language should consult Section X under Foreign Languages for special provisions of placement when continuing a language started in high school. For those without any high school foreign language, the requirements are as follows:

Field I: Spanish 130, 131, 132, 230, 231, 232, 321, 322, 323, 340; eight quarter hours selected from courses numbered 400 or above. Total, 48 quarter hours.

Field II: Spanish 130, 131, 132, 230, 231, 232, 321, 322, 340. Total, 36 quarter hours.

Geography

Field II: Geography 150; 142 or 300; 151 or 302; 360 or 387; Geology 140; sixteen quarter hours from Geography 370, 451, 452, 453, 455, 470. Total 36 quarter hours.

History

Field II: History 233, 234, 235; twelve quarter hours from 254, 255, 256, 257; twelve quarter hours from courses numbered 300 or above. Total, 36 quarter hours.

Home Economics

Field II: Home Economics 101, 210, 211, 231, 245, 303; 346 or 347; twelve quarter hours from 131, 230, 340, 346, 347, 320, or 420. Total, 36 quarter hours.

Industrial Arts

Field II: Industrial Arts 101, 106, 111, 116, 121, 225, 340 (prerequisite waived), eight quarter hours from 222, 202, 212, 307. Total, 36 quarter hours.

Library Science

Field II: Library Science 320; 330 or 332; 449; 450; 460; 470; Education 487, 488. Total, 32 quarter hours.

Mathematics

Field I: Mathematics 222 or (122 and 123), 130¹, 131², 134, 135, 235, 327, 470; sixteen quarter hours from courses numbered 200 or higher (Education 314 may be used as an elective). Total, 48-50 quarter hours.

Field II: Mathematics 222 or (122 and 123), 130¹, 131², 134, 135, 327; eight quarter hours from courses numbered 200 or higher. Total, 32-34 quarter hours.

¹ Students admitted to Mathematics 131 on basis of placement test should substitute 225 for 130.

² Students admitted to Mathematics 134 on basis of placement test may substitute for 131 any four-quarter-hour mathematics course numbered above 200 and should substitute 225 for 130.

Combined Mathematics—Science

Fields I and II: Mathematics 222 or (122 and 123), 130,* 131,* 134, 235, 327; Physics 130, 131, 132; Chemistry 120, 121, 122 or Chemistry 150, 151, 152; Geology 140; Geography 141 or 301; Geology 243; Life Science 100; Botany 101; Zoology 101; Botany 102 or Zoology 338; *and* mathematics 20 quarter hours *or* physics 12 quarter hours *or* chemistry 12 quarter hours *or* life science 20 quarter hours *or* 12 quarter hours from Geography 242, 381, Geology 244, 346, 447. Total, 88-98 quarter hours, including general requirements.

*If student is exempt, select additional mathematics courses.

Physical Education for Men

Field II: Health Education 227; PEM 120, 340, 432; four quarter hours from 203, 205, 206, 207, 208; four quarter hours from 210, 211, 212, 213, 214, 215, 217, 240; eight quarter hours from Health Education 131, PEM 121, 244, 351, 433, PEW 132, 356. Total, 32 quarter hours.

Physical Education for Women

Field II: Health Education 131, PEW 130, 132 or 356, 233 or 234, 346, 353, 363, 413; four quarter hours from 235, 336, 362, 450, PEM 228, 244, 351, Health Education 227, 320. Total, 36 quarter hours.

Physical Science

Students selecting physical science as a field of specialization must also select mathematics as a field of specialization. Students selecting this field will *not* need to take Physical Science 100 and 101 unless used in one of the following sequences.

Field I: Select one of the following sequences:

- (a) Physical Science 101, Chemistry 121, 122, 234
- (b) Chemistry 120, 121, 122, 234
- (c) Chemistry 150, 151, 152, 234

Plus one of the following sequences:

- (a) Physical Science 100, Physics 110, 111, 131
- (b) Physical Science 100, Physics 130, 131, 132
- (c) Physics 110, 111, 131, 132
- (d) Physics 130, 131, 132, 236
- (e) Physics 130, 131, 132, 315

Plus four courses selected from the following:

Chemistry 243, 244, 245, 346, Physics 132, 236, 239, 240, 315Total, 48 quarter hours.

Field II: Same as Field I except that only one course is selected from the following: Chemistry 243, 244, 245, 346, Physics 132, 236, 239, 240, 315Total, 36 quarter hours.

Social Studies

Field I: History 233, 234, 235; twelve quarter hours from History 254, 255, 256, 257; Geography 150, 300, 302; four quarter hours political science; four quarter hours economics; four quarter hours anthropology or sociology. Total, 48 quarter hours.

Field II: History 233, 234, 235; twelve quarter hours from History 254, 255, 256, 257; Geography 150, 300, 302. Total, 36 quarter hours.

Speech

Field II: English 120, 130; Speech 131, 232; Theatre Arts 132, 133, 445; Speech Pathology and Audiology 260; four quarter hours from Speech 330, 352, Theatre Arts 244, 257, 333, 357. Total, 36 quarter hours.

Curriculum for High School and Special Area Teachers

The curriculum consists of general education (all-University and distribution) requirements, specialization requirements consisting of a major and, except where specified, a minor, and prescribed professional education requirements. Certain courses may be used to satisfy both major or minor and general education distribution requirements.

Certification to teach in a general field (e.g., Business) in Illinois high schools does not necessarily permit the teaching of a specific subject in that field; for details, the student should consult Bulletin Series A, No. 160, Office of Public Instruction.

The prescriptions for majors and minors have been filed with, and approved by, the State Teacher Certification Board. They are used as a basis for cards of entitlement.

General Education Requirements (see page 102)

Professional Education Requirements

The following are the minimum professional education requirements for secondary teachers:

Ed. 331*	Laboratory in Secondary Education	1 qtr. hr.
Ed. 332	Educational Psychology	4 qtr. hrs.
Ed. 333	Instructional Task in Secondary School	4 qtr. hrs.
	Teaching Methods Course	4 qtr. hrs.
Ed. 441, 442	Teaching Practicum	8 qtr. hrs.
Ed. 440 or 443	Teaching Practicum	3 or 4 qtr. hrs.
Ed. 445	Philosophy & History of Education	4 qtr. hrs.
Total		28 qtr. hrs.

Notes:

- 1.* Since sufficient pre-student teaching laboratory experiences are included in their curricula, music, physical education, and speech pathology majors may opt to omit Ed. 331, in which case they must complete a minimum of 12 qtr. hrs. in Teaching Practicum.
- 2. Psychology 231 is a prerequisite for Edu. 332.
- 3. Speech Pathology majors must substitute Ed. 232 and 324 for Ed. 332 and 333.

MAJORS AND MINORS

Art

Major: (Standard Special Certificate. No minor required.)	
Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, 341	52 qtr. hrs.
Elective courses in Art*	36
Total	88 qtr. hrs.

* The elective courses must comprise 24 or 28 quarter hours in a major concentration, complemented by 12 or 8 quarter hours in a minor concentration. These are defined as follows:

- Major Area I: Painting, drawing, printmaking
- Major Area II: Ceramics, jewelry, sculpture, weaving
- Minor Areas: Art education, art history, commercial design, the alternate major area

Study in two phases of the major area is required.

Major: (Standard High School Certificate)

Art 100, 101, 110, 111, 160, 205, 225, 260, 261, 262, 270, 340, 341	52 qtr. hrs.
Elective courses in art	8
Total	60 qtr. hrs.

Minor:

Art 100 or 101; 205; 110 or 111 or 140; 225 or 270 or 334; 244 or 340; 341; one course chosen from Art 160, 260, 261, 262, 360, 361, 362; four quarter hours elective credit in art	32 qtr. hrs.
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Biological Sciences

Minor:

Life Science 100	4 qtr. hrs.
Botany 101, 102; 234 or 335	12
Zoology 101, 212, 343; 348 or 350	16
Electives in botany numbered 300 or above	4
Life Science 341*	2
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Total	38 qtr. hrs.

Note: For other minors in Biological Sciences, see Botany Minor and Zoology Minor.

* Life Science 341 may be omitted if the student has credit in Life Science 340 or Physical Science 340.

Botany

Major: (Standard High School Certificate)

Life Science 100, 340; Botany 101, 102, 229, 230, 254	28 qtr. hrs.
Two courses from Group I	8
Two courses from Group II	8
Two additional courses from Groups I, II, or III	8
Zoology 101, 212; 214 or 225; 343; 348 or 350	20
Electives in zoology	8
Chemistry 150, 151, 152; or 120, 121, 151, 152	12
Geography 141 or Geology 140	4

Total, including correlative courses and a minor in zoology 96 qtr. hrs.
(Major GPA based on life science and botany courses only.)

Note: The groups are listed on page 192.

Minor:

Life Science 100; Botany 101, 102	12 qtr. hrs.
Electives in botany	12
Zoology 101, 212	8
Electives in zoology	4
Life Science 341*	2
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Total	38 qtr. hrs.

* Life Science 341 may be omitted if the student has credit in Life Science 340 or in Physical Science 340.

Business Education

The student may choose either a 76-quarter hour major with a minor in a second teaching field or a 92-quarter hours comprehensive major.

Major: Minor in a non-business teaching field required. (Standard High School Certificate)

The student may choose one of three options: Accounting and Secretarial; Accounting; Secretarial.

Accounting and Secretarial Option:

Management 141	4 qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8
Three courses from Business Education 123, 124, 125, 223, 224, 225	12
Accounting 230, 231, 232; Management 346, 347	20
Business Education 300, 322, 323	12
Two courses to be chosen from Business Education 340, 342, 344	8
Economics 254, 255, 256	12
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Total, including correlative courses	76 qtr. hrs.

Accounting Option:

Management 141	4 qtr. hrs.
Two courses from Business Education 111, 112, 210, 211	8
Accounting 230, 231, 232	12
Elective courses in accounting	12
Business Education 300, 322, 323	12
Management 346, 347	8
Business Education 340; 344	8
Economics 254, 255, 256	12
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Total, including correlative courses	76 qtr. hrs.

Secretarial Option:

Management 141, 230	8 qtr. hrs.
Business Education 210, 211, 223, 224, 225	20
Business Education 300, 322, 323	12
Management 346, 347; Business Education 342, 344	16
Elective courses in business	8
Economics 254, 255, 256	12
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Total, including correlative courses	76 qtr. hrs.

Comprehensive Major: No minor required. (Standard High School Certificate)

The student may choose one of three options: Comprehensive Secretarial, Comprehensive Basic Business, or Vocational Business Education. The program in Vocational Business Education leads to certification as a Reimbursable Vocational Business Teacher if student has appropriate work experience as required by the Illinois Board of Vocational Education and Rehabilitation.

Comprehensive Secretarial Option:

Two courses from Business Education 111, 112, 210, 211 ..	8 qtr. hrs.
Three courses from Business Education 124, 125, 223, 224, 225	12
Management 141	4
Accounting 230, 231, 232	12
One course from Marketing 247, 248, 250	4
One course from Management 251, 345, Business Education 453	4
Management 230, 346, 347	12
Business Education 300, 322, 323	12
Two courses from Business Education 340, 342, 344	8
One elective course in business	4
Economics 254, 255, 256	12
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Total, including correlative courses	92 qtr. hrs.

Comprehensive Basic Business Option:

Two courses from Business Education 111, 112, 210, 211 ...	8 qtr. hrs.
Management 141	4
Accounting 230, 231, 232	12
One course from Marketing 247, 248, 250	4
One course from Management 251, 345, Business Education 453	4
Management 230, 346, 347	12
Three elective courses in Accounting	12
Business Education 300, 322, 323	12
Business Education 340, 344	8
One elective course in business	4
Economics 254, 255, 256	12
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Total, including correlative courses	92 qtr. hrs.

Comprehensive Vocational Business Education Option:

Two courses from Business Education 111, 112, 201, 211	8 qtr. hrs.
Management 141	4
Accounting 230, 231, 232	12
One course from Management 251, 345, Business Education 453	4
Management 230, 346, 347	12

Business Education 300	4
Three courses from Business Education 492, 493, 494, 495 ..	12

(Three courses from Business Education 124, 125, 223, 224, 225; plus either Business Education 342 or 344; plus Business Education 322 and 323) OR (Marketing 247, 243, 249, 250; plus Business Education 344; plus one elective course in business)	24
Economics 254, 255, 256	12

Total, including correlative courses 92 qtr. hrs.

(Major GPA based on all business courses taken.)

Minor: (Four options)

Accounting Option:

Accounting 230, 231, 232, 354, 355	20 qtr. hrs.
One course from Accounting 360, 461	4
Management 251; Business Education 340	8
Total	32 qtr. hrs.

General Business Option:

Management 141; Accounting 230, 231, 232	16 qtr. hrs.
Management 346, 347	8
Business Education 340	4
Business Education 300	4
Total	32 qtr. hrs.

Secretarial Option:

Two courses from Business Education 111, 112, 210, 211 ...	8 qtr. hrs.
Three courses from Business Education 123, 124, 125, 223, 224, 225	12
Business Education 322 or 323	4
Business Education 342 or 344	4
Elective in business	4
Total	32 qtr. hrs.

Typewriting and Bookkeeping Option:

Two courses from Business Education 111, 112, 210, 211 ..	8 qtr. hrs.
Accounting 230, 231, 232; Business Education 322 or 323	16
Business Education 340 or 344	4
Elective in business	4
Total	32 qtr. hrs.

Chemistry

Major: (Standard High School Certificate)

Chemistry 150 (or 120, 121), 151, 152	12 qtr. hrs.
Chemistry 283, 284, 285, 330	20
Chemistry 461, 470, 491, 492, 493	20
Physical Science 340	4
Chemistry 342	1
Mathematics 134, 135, 235, 236	16 qtr. hrs.
Physics 130, 131, 132	12
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Total, including correlative courses	85 qtr. hrs.
(Major GPA based on Physical Science 340 and chemistry courses only.)	

Minor:

Chemistry 150 (or 120, 121), 151, 152	12 qtr. hrs.
Chemistry 234 (or 330), 243, 244 (or 283, 284)	12-15
Electives in chemistry and/or physics	12-9
Physical Science 341*	2
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Total	38 qtr. hrs.

* Physical Science 341 may be obmitted if the student has credit in Physical Science 340, Geography 340, or Life Science 340.

English

Major: (Standard High School Certificate)

Courses in English (exclusive of English 120, 130, 201, 322, 340, 459) selected to represent each of twelve groups, except that from Group I two courses must be selected, including English 126; from Group II the selection must include English 224 or 355 or 356		52 qtr. hrs.
English 340	4	
Foreign Language (a single language)	24	
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Total, including correlative courses	80 qtr. hrs.	
(Major GPA based on English courses only.)		

Note: The groups are listed on page 205.

Minor:

English 245, 246, 247; 336 or 337 or 338; 340*; two other English courses numbered above 201, except English 322 and 459; Speech 131 32 qtr. hrs.

* English 340 may be omitted if the student has credit in a methods course in any of the foreign languages or in speech.

Foreign Language—French

Major: Standard High School Certificate)

French 330, 331, 332, 340 16 qtr. hrs.
Courses chosen from French 230, 231, 232, 350, 351, 352, 410,
411, 412, 456, 457, 458, 510, 511, 512 36
History 233 or 235; 256 or 257 8
Total, including correlative courses 60 qtr. hrs.
(Major GPA based on French courses only.)

Note: Students with a background of high school units in French do not receive credit for beginning courses in university French. See Section X under Foreign Languages.

Foreign Language—German

Major: (Standard High School Certificate)

German 340, 354, 361, 410 16 qtr. hrs.
Courses chosen from German 233, 234, 235, 353, 355, 362,
363, 411, 412, 453, 454, 455, 510, 511, 512 36
History 235, 257 8
Total, including correlative courses 60 qtr. hrs.
(Major GPA based on German courses only.)

Note: Students with a background of high school units in German do not receive credit for beginning courses in university German. See Section X under Foreign Languages.

Foreign Language—Latin

Major: (Standard High School Certificate)

Latin 340 4 qtr. hrs.
Courses chosen from Latin 220, 221, 222, 320, 321, 322, 330,

331, 332, 433, 434, 435, 450, 451, 452, 510, 511, 512	48
History 233 or 234 or 235; 254	8
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Total, including correlative courses	60 qtr. hrs.
(Major GPA based on Latin courses only.)	

Note: Students with a background of high school units in Latin do not receive credit for beginning courses in university Latin. See Section X under Foreign Languages.

Foreign Language—Spanish

Major: (Standard High School Certificate)

Spanish 327, 340, 410, 415	16 qtr. hrs.
Courses chosen from Spanish 230, 231, 232, 321, 322, 323, 325, 326, 411, 456, 457, 458, 510, 511, 512	36
History 233, 234	8
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Total, including correlative courses	60 qtr. hrs.
(Major GPA based on Spanish courses only.)	

Note: Students with a background of high school units in Spanish do not receive credit for beginning courses in university Spanish. See Section X under Foreign Languages.

Foreign Language Minor:

A minor may be taken in French, German, Latin, Russian, or Spanish. Each minor consists of thirty quarter hours in a single foreign language. For a student with high school credits in that language the thirty quarter hour requirement is reduced by 1.5 quarter hours for each high school unit up to a maximum reduction of six quarter hours. The college work in the language must include the two-quarter-hour methods course (341) in that language unless the student has credit in a four-quarter-hour methods course (340) in some other foreign language.

Note: Students with a background of high school units in a foreign language do not receive university credit for beginning courses in that language. See the chart at the beginning of the Foreign Language section of "Description of Courses."

Geography

Major: (Standard High School Certificate)

Geography 150; 151 or 302; 141 or 142; 340	16 qtr. hrs.
Courses in geography approved by the head of the Department of Geography	36
Economics 254, 255	8
Total	60 qtr. hrs.
(Major GPA based on geography courses only.)	

Minor:

Geography 141, 142, 150, 151, 340*, and eight quarter hours in geography courses approved by the department; or Geography 300, 301, 302, 340*, and twelve quarter hours approved by the department	23 qtr. hrs.
Three courses in history, economics, sociology, or political science	12
Total	40 qtr. hrs.

*Geography 340 may be omitted if the student has credit in Social Science 340.

Health Education

Minor:

Health Education 120, 227, 320	12 qtr. hrs.
Zoology 348	4
Psychology 455	4
One or two courses from Life Science 100, or Zoology 101, 225; and course(s) chosen from Home Economics 303;	
Botany 335, Health Education 131, 300, 330	12
Total	32 qtr. hrs.

History

Major: (Standard High School Certificate. No minor required.)

History 233, 234, 235, 254, 255, 256, 257	28 qtr. hrs.
Electives in history numbered 300 or higher including at least eight quarter hours in American and eight quarter hours in non-American history courses	24

Social Science 340	4
Electives in political science	12
Electives in sociology or economics (in one field)	12
Geography 150	4
Total, including correlative courses	84 qtr. hrs.
(Major GPA based on Social Science 340 and history courses only.)	

Note: The student is certified for the Standard High School Certificate with major in history and minor in social sciences.

Minor:

History 233, 234, 235	12 qtr. hrs.
Three courses from History 254, 255, 256, 257	12
Electives in history numbered 300 or higher	12
Social Science 340*	4
Total	40 qtr. hrs.

* Social Science 340 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, or speech.

Home Economics

Major: (Standard Special Certificate. No minor required.)

Home Economics 101, 102, 131, 201, 210, 211, 212, 230, 231, 245, 300, 301, 302, 320, 340, 345, 346, 347, 431	72 qtr. hrs.
Chemistry 110, 111, 112; Botany 234	16
Sociology 271; Economics 254, Anthropology 273 or Sociology 473	12
Total	100 qtr. hrs.

(Major GPA based on home economics courses only.)

Note: Health Education 120 is not required for the major in home economics.

Minor:

Home Economics 101, 210, 211, 231, 245, 303, 340; 346 or 347	28 qtr. hrs.
Electives chosen from Home Economics 131, 230, 320, 420, 346, 347	12
Total	40 qtr. hrs.

Industrial Arts

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 101, 141, 205, 340 16 qtr. hrs.

Four courses to be selected one each from electronics,
graphic arts, industrial crafts, metals and woods 16

Concentrations. The student will choose two subject areas
for additional work of sixteen quarter hours each from
electronics*, graphics*, graphic arts, metals*, and woods .. 32

Total 64 qtr. hrs.

* Students choosing the subject areas of electronics, graphics or metals must take Mathematics 125, 126; or 130, 131. Physics is strongly recommended to fulfill three of the required science courses.

Note: Vocational Technical Teaching Option may be satisfied through the selection of Industrial Arts 490, 493, and 495. While there is not a requirement for work experience for the baccalaureate degree, there is a requirement of the State Board of Vocational Education for work experience in the subject area to be taught. See the Director of the School of Industrial Arts and Technology.

Minor:

Industrial Arts 101, 141, 205, 340 16 qtr. hrs.

Basic subject area courses to be chosen from electricity,
graphic arts, industrial crafts, metals and woods 12

Industrial arts and electives 8

Total 36 qtr. hrs.

Journalism

Minor:

Journalism 210, 211, 212, 310, 311, 312 24 qtr. hrs.

An advanced course in English composition 4

Total 28 qtr. hrs.

Latin American Studies

Major: (An interdisciplinary major. Standard High School Certificate.)

Spanish	24 qtr. hrs.*
History 281, 282, 464, 465	16
Electives chosen from Anthropology 360, Economics 490, Geography 351, 451, Political Science 333, 493, Sociology (four quarter hours by consultation with advisor), Spanish or Spanish-American literature (Portuguese when available). A maximum of twelve quarter hours at the 300 or higher level for this category of the re- quirement	28 qtr. hrs.**

(Major GPA based on all specific courses required in
the major as well as on all Spanish courses.)

Additional courses to satisfy requirements for Standard High School
Certificate; either through completing the requirements for a major
and a minor, or the requirements for three minors. The total
number of quarter hours depends upon the choice of these addi-
tional courses.

* The student with a background in Spanish is considered to have completed the require-
ment when he has passed twelve quarter hours of college work in Spanish courses at the
200 or higher level.

** Spanish or Spanish-American literature courses, at the 300 or higher level, may apply to-
ward the twenty-four quarter hour Spanish requirement as well as toward this twenty-
eight quarter hour requirement.

Library Science

Minor:

Library 320, 449, 450, 460, 470; 330 or 332	24 qtr. hrs.
For certification for instructional materials, add Educa- tion 487, 488	8
Total	24 or 32 qtr. hrs.

Manual Arts Therapy

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 101, 141, 205, 340	16 qtr. hrs.
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Four courses chosen one each from electronics, graphic arts, industrial crafts, metals and woods	16
Concentrations. Majors will choose two subject areas for additional work of sixteen quarter hours each from electronics, graphics, graphic arts, metals, and woods	32
Advanced courses in psychology	12
Electives in sociology	12
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Total	88 qtr. hrs.

(Major GPA based on industrial arts courses only.)

Mathematics

Major: (Standard High School Certificate)

Mathematics 134, 135, 235, 236, 237, 327, 328, 340, 344, 353, 470, 471; 232 or 231	49 or 52 qtr. hrs.
One course chosen from: Mathematics 350, 354, 455, 458, 460, 490, 491	4
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Total	53 or 56 qtr. hrs.

Minor:

Mathematics 134, 135, 235, 236, 237, 327, 341, 353, 470	34 qtr. hrs.
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Music

Major: (Standard Special Certificate. The student chooses one of three options: Instrumental, Vocal, or General).

Instrumental Music Option:

A. Instrumental Principal: Music 126, 127, 128, 130, 131, 132, 136, 137, 138, 146; 151 or 152; 200, 201, 203, 204, 205, 230, 231, 232, 240, 340; 347 or 455; 351, 352, 353, 381, 447	74 qtr. hrs.
Applied Instrument (Principal)	15
Instrumental Ensemble	6
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Total	95 qtr. hrs.

B. Keyboard Principal: Music 130, 131, 132, 136, 137, 138,
146; 151 or 152; 200, 201, 203, 204, 205, 230, 231, 232, 240,
246, 247, 248, 340; 347 or 455; 351, 352, 353, 362, 381, 447 78 qtr. hrs.

Applied Keyboard 15

Instrumental Ensemble 6

Total 99 qtr. hrs.

C. Composition Principal: Music 126, 127, 128, 130, 131, 132,
136, 137, 138, 146; 151 or 152; three courses from 200,
201, 203, 204, 205; 226; 227, 228, 230, 231, 232, 240, 340,
381; 347 or 455; 351, 352, 353, 447 73 qtr. hrs.

Applied Composition 15

Instrumental Ensemble 6†

Total 94 qtr. hrs.

Vocal Music Option

A. Vocal Principal: Music (126, 127, 128)*; 130, 131, 132, 146,
151 or 152, 200, 204; (226, 227, 228)*; 230, 231, 232, 240,
243, 244, 245, 339; 372 (taken twice); 347 or 454 or 455;
351, 352, 353, 380, 447 75 qtr. hrs.

Applied Voice 15

Vocal Ensemble 6†

Total 96 qtr. hrs.

B. Keyboard Principal: Music 130, 131, 132, 136, 137, 138,
146; 151 or 152; 200, 204, 230, 231, 232, 236, 237, 238, 240,
246, 247, 248, 339; 347 or 454 or 455; 351, 352, 353, 362,
380, 447 75 qtr. hrs.

Applied Keyboard 15

Vocal Ensemble 6†

Total 96 qtr. hrs.

C. Composition Principal: Music 126, 127, 128, 130, 131, 132,
136, 137, 138; 151 or 152; two courses from 146, 200, 204;
226, 227, 228, 230, 231, 232, 236, 237, 238, 240, 243, 244,
245, 339, 380; 347 or 454 or 455; 351, 352, 353, 447 75 qtr. hrs.

* When keyboard skills are advanced, singers may be assigned to private instruction—6 qtr. hrs., minimum requirement.

† Participating in an ensemble organization is encouraged during each year of residence.

Applied Composition	15
Vocal Ensemble	6†
Total	96 qtr. hrs.

General Music Option:

Music 130, 131, 132; 151 or 152, 230, 231, 232, 240, 338,
339, 351, 352, 353; 380 or 381; 447 56 qtr. hrs.

Applied Music (Instrumental, Vocal, Keyboard, or
Composition Principal) 8

Piano—Keyboard Principal: Music 246, 247, 248; Vocal,
Instrumental, and Composition Principal: Music
226, 227, 228, or Music 246, 247, 248, depending upon
student's keyboard skills 3

Ensemble 3†

70 qtr. hrs.

*Minor:**Vocal Option:*

Music 130, 131, 132, 230, 231, 339, 353, 380, four hours in
applied piano over four quarters, six hours in ap-
plied voice over six quarters 42 qtr. hrs.

Participation for at least six quarters in a university
choral organization is required.

Instrumental Option:

Music 130, 131, 132, 230, 231, 200, 201, 204, 205, 340, 353,
381, four hours in applied instrumental music over
four quarters 44 qtr. hrs.

Participation for at least six quarters in a university
instrumental organization is required.

† Participating in an ensemble organization is encouraged during each year of residence.

Physical Education, Men

Major: (Standard High School Certificate)

PEM 120, 121, 150, 244, 340, 431, 432, 433, PEW 450	36 qtr. hrs.
One course chosen from PEM 203, 205, 206, 207, 208	2
One course chosen from PEM 210, 211, 212, 213, 214, 215, 217, 240	2
Three courses chosen from PEM 347*, 348*, 349*, 350*, 358, 360, with at least two from those marked with *	12
Life Science 100; Zoology 225, 348	12
Physical Education services courses ¹	9
<hr/>	
Total, including correlative courses	73 qtr. hrs.
(Major GPA based on physical education courses only.)	

Minor:

PEM 120, 340, 432	12 qtr. hrs.
One course chosen from PEM 203, 205, 206, 207, 208	2
One course chosen from PEM 210, 211, 212, 213, 214, 215, 217, 240	2
Four courses chosen from PEM 121, 244, 347, 348, 349, 350, 431, 433	16
Physical Education service courses ¹	9
<hr/>	
Total	41 qtr. hrs.

Physical Education, Women

Major: (Standard Special Certificate)

PEW 130, 132, 233, 234, 235, 252, 336, 346, 353, 410, 411, 450, PEM 244	52 qtr. hrs.
Health Education 131, 320	8
Life Science 100, Zoology 225, 348	12
The student must take twenty-two quarter hours in activity courses, at the rate of two courses each quarter for eleven quarters	9 ²
<hr/>	
Total, including correlative courses	81 qtr. hrs.
(Major GPA based on physical education courses only.)	

1 The student must complete nine one-quarter-hour service courses; these courses to include swimming, dance, and a contact sport.
2 A maximum of 9 quarter hours credit is counted toward graduation.

Minor:

PEW 233 or 234; 346; 353; 413	16 qtr. hrs.
Health Education 227 or 320	4
Three courses from PEW 130, 132, 233, 234, 252, 336, 355, 356, PEM 244, 351, Health Education 131, 227, 320	12
The student must take eleven quarter hours in activity courses	9 ²
<hr/> Total	41 qtr. hrs.

Physics

Major: (Standard High School Certificate)

Physics 130, 131, 132	12 qtr. hrs.
Physics 236, 239, 240, 341, 342, 466, 467	28
Electives from physics numbered 200 or above	8
Physical Science 340	4
Mathematics 134, 135, 235, 236, 237	20
Two courses from Mathematics 350, 351, 460, 461	8
Chemistry (strongly recommended)	12
<hr/> Total, including correlative courses	80-92 qtr. hrs.

(Major GPA based on Physical Science 340 and physics courses only.)

Minor:

Physics 130, 131, 132	12 qtr. hrs.
Electives in physics as approved by the head of the de- partment	12
Electives in physics and/or chemistry	12
Physical Science 341*	2
<hr/> Total	38 qtr. hrs.

* Physical Science 341 may be omitted if the student has credit in Geography 340, Life Science 340, or Physical Science 340.

2 A maximum of 9 quarter hours credit is counted toward graduation.

Psychology

Major:

Psychology 231, 234, 261, 281, 340	20 qtr. hrs.
Electives in psychology	32
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Total	52 qtr. hrs.

Minor:

Psychology 231, 234; 352 or 457	12 qtr. hrs.
Electives in psychology	20 qtr. hrs.
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Total	32 qtr. hrs.

Safety and Driver Education

Minor: (May be used only as a second minor.)

Health Education 330, 331, 332	12 qtr. hrs.
Three courses from Health Education 131, 227, 300, 320,	
PEM 433, Psychology 455, 457; Political Science 260, 364 ..	12
<hr/>	
Total	24 qtr. hrs.

Social Science

Major: (Standard High School Certificate)

The major consists of courses in economics, political science, anthropology, sociology, and geography; history courses to complete a minor are also required.

Core Courses:

Economics 254, 255, 256; Anthropology 273; Sociology 271,	
272; Political Science 110, 111; one course from Political	
Science 100, 220, 260, 321, 322	36 qtr. hrs.

Additional Courses:

Geography elective	4
Social Science 340	4
<hr/>	
Upper division courses from economics, political science,	
sociology-anthropology; (may be in one field or dis-	
tributed in three fields)	24

History 233, 234, 235, 256, 257; plus a third course in European history	24
Electives in history numbered above 300	8
Total	100 qtr. hrs.
(Major GPA based on social science, economics, sociology, anthropology, and political science courses only.)	

Minor:

Two of the following options:	
a. Economics 254, 255, 256.	
b. Political Science 110, 111; 100 or 220 or 260 or 321 or 322.	
c. Anthropology 273; Sociology 271, 272	24 qtr. hrs.
Electives from anthropology, sociology, economics, geography, history, political science	12
Social Science 340*	4
Total	40 qtr. hrs.

* Social Science 340 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, or speech.

Speech

Major: (Standard High School Certificate)

Speech 230, 232, 234, 252, 340	20 qtr. hrs.
*Theatre Arts 132, 133, 257, 445	16
One of the following options:	
a. Three courses from Speech 320, 453, 470, 480	
b. Three courses from Speech 470; 352 or 452; 320 or 480	
c. Three courses from Speech 352, 452, 453, 470, 490 ...	12
Elective: Any speech course other than 131	4
Three of the following: Speech 101, 102, 103, 301, 302, 303 ..	3
Total	55 qtr. hrs.

With the consent of the Head of the Department, Speech 400 may be substituted for any of the above requirements.

*Note: A student who majors in speech and minors in theatre arts must substitute 16 qtr. hrs. (four 4-qtr. hrs. courses) in speech courses numbered above 131 for Theatre Arts 132, 133, 257, 445.

(Major GPA based on theatre arts and speech courses only.)

Minor:

Speech 230, 232, 234, 340, 490	20 qtr. hrs.
Electives: Two courses (4 qtr. hrs. each) numbered above 131 in speech	8
Total	28 qtr. hrs.

Speech Pathology and Audiology

Major: (Special Certificate in Speech Correction)

Speech Path. & Aud. 254, 255, 260, 262, 263, 362, 402, 403, 405, 406, 408, 457	48 qtr. hrs.
Theatre Arts 132	4
Psychology 450, 451	8
Three courses from Psychology 360, 452, 455, Education 328, 444, 490, 528	12
Zoology 225	4
Total, including correlative courses	76 qtr. hrs.

(Major GPA based on Theatre Arts 132 and speech pathology and audiology courses only.)

Students in this major take Education 232 and 324 instead of Education 332 and 333 as prescribed in the Professional Education Requirements for the degree B.S. in Education.

Note: Because of requirements of the American Speech and Hearing Association, the student is advised to earn the master's degree as soon as possible.

Theatre Arts

Major (for the student with a speech minor): (Standard High School Certificate)

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 357, 358, 445, 460, 462, 464	51 qtr. hrs.
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Major (for the student without a speech minor): (Standard High School Certificate)

Theatre Arts 101, 102, 103, 132, 133, 240, 244, 257, 333, 357, 358, 445, two courses from: 460, 462, 464	47 qtr. hrs.
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Speech 232, 234, 340*	12
Total	59 qtr. hrs.
(Major GPA based on theatre arts and speech courses only.)	

Minor:

Theatre Arts 132, 133, 244, 257, 445	20 qtr. hrs.
Speech 131	4
Speech 340 or English 340	4
English 120, 130 are included for certification	8
Total	36 qtr. hrs.

*Note: A theatre arts major with an English minor may take either Speech 340 or English 340.

Zoology

Major: (Standard High School Certificate)

Life Science 100, 340	8 qtr. hrs.
Zoology 101, 212, 214, 215, 336, 343, 350, 445	32
Electives in advanced zoology courses	12
Botany 101, 102, 229, 230; 254 or 335; two courses in botany numbered 300 or above	28
Chemistry 120, 121, 122; or 150, 151, 152	12
Geology 140	4
Total, including correlative courses and minor in botany.	96 qtr. hrs.

(Major GPA based on Life Science 100, 340, and zoology courses only.)

Minor:

Life Science 100, 341*	6 qtr. hrs.
Zoology 101, 212; 214 or 225; 343; 348 or 350	20
Botany 101, 102; one course numbered 229 or above	12
Total	38 qtr. hrs.

*Life Science 341 may be omitted if the student has credit in Life Science 340 or in Physical Science 340.

BACHELOR OF SCIENCE IN HOME ECONOMICS

The degree, Bachelor of Science in Home Economics, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented by elective credit to meet the minimum graduation requirement of 190 quarter hours. Courses in professional education and methods of teaching are not acceptable for elective credit.

GENERAL EDUCATION REQUIREMENTS (See page 102.)

The general requirements are those shown for professional degrees except that Health Education 120 is not mandatory.

SPECIALIZATION

Specialization for the degree, Bachelor of Science in Home Economics, offers a choice of three basic curricula—Dietetics, Family Services, and Home Economics in Business. The curriculum, Home Economics in Business, has two options—Foods and Nutrition or Clothing and Merchandising.

DIETETICS

Anthropology 273	4 qtr. hrs.
Botany 234	4
Accounting 230	4
Management 251, 345	8
Marketing 247	4
Chemistry 120, 121, 122, 346	16
Economics 254	4
Education 232	4
Home Economics 102, 210, 211, 212, 302, 310, 312, 340, 360, 402	40
Psychology 231, 351	8
Sociology 271	4
Life Science 100; Zoology 101, 348, 349	16
<hr/>	
Total	116 qtr. hrs.

FAMILY SERVICES

Anthropology 273	4 qtr. hrs.
Economics 254	4
Education 490	4
Home Economics 101, 102, 231, 245, 300, 302, 320, 346, 347, 370, 430	40
Health Education 320	4
Psychology 231, 350, 451, one elective in psychology	16
Sociology 271, 272, 360, 381, 475, one elective in sociology	24
<hr/>	
Total	96 qtr. hrs.

HOME ECONOMICS IN BUSINESS

Anthropology 273	4 qtr. hrs.
Management 141; Marketing 247, 486	12
Chemistry 110, 111, 112	12
Economics 254	4
Home Economics 102, 233, 235, 300, 320, 380, 390	28
Journalism 312	4
Psychology 231; 351 or 457	8
Sociology 271	4
Option I or Option II	36-42
<hr/>	
Total	112-118 qtr. hrs.

Option I—Foods and Nutrition

Botany 234	4
Management 142; Marketing 250	8
Home Economics 210, 211, 212, 230, 302	20
Home Economics 310 or 345	4
<hr/>	
Total	36 qtr. hrs.

Option II—Clothing and Merchandising

Marketing 248, 249	8 qtr. hrs.
Home Economics 101 and/or 201	4-8
Home Economics 131, 231, 232, 301, 331, 401, 420	26
<hr/>	
Total	38-42 qtr. hrs.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

The degree, Bachelor of Science in Industrial Technology, is conferred upon the successful completion of a curriculum consisting of two sets of requirements, general requirements and specialization, supplemented if necessary by elective courses to meet the minimum graduation requirement of 190 quarter hours. Courses in professional education and methods of teaching are not acceptable for elective credit.

GENERAL EDUCATION REQUIREMENTS (see page 102)**SPECIALIZATION**

Specialization for the degree, Bachelor of Science in Industrial Technology provides for three options: Electronics, Light Building Construction, and Metal Work.

Art 100 and 110 and/or 111	8-12 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12
Economics 254, 255, 357	12
Health Education 335	4
Industrial Arts 101, 106, 116, 222; 202 or 303; and 306	24
Industrial Technology 304, 370, 400, 404	16
Management 383, 434; 251 or 345	12
Mathematics 130, 131, 134, 234	16
Physics 130, 131, 132	12
Psychology 353	4
Option and electives	32
<hr/>	
Total	152-156

Option I—Electronics

Physics 315	4 qtr. hrs.
Industrial Technology 416, 417	8
Industrial Arts 216, 217, Ind. Tech. 316 recommended	12

Option II—Light Building Construction

Industrial Arts 301, 302, 321, 323	14 qtr. hrs.
Industrial Technology 305, 401, 402, 424	8

Option III—Metal Work

Industrial Arts 307, 310, 409	12 qtr. hrs.
Industrial Technology 460, 464	8

NOTE: Recommended electives outside the School of Industrial Arts and Technology: Management 230, 346, 435; Geography 360; Sociology 381.

BACHELOR OF SCIENCE IN RECREATION

The degree, Bachelor of Science in Recreation, is conferred upon successful completion of a minimum of 190 quarter hours in courses which satisfy two sets of requirements: general and specialization.

GENERAL EDUCATION REQUIREMENTS

(in addition to all-University requirements, page 102)

Life Science 100; Zoology 225, 348	12
Elective in Mathematics	4
One course in U.S. History	4
Political Science 260	4
Sociology 271, 365, 381	12
One course in English literature	4
One course in Philosophy	4
Music 229	4
Art 360	4

SPECIALIZATION

Art 334	4
Economics 485	4
Geography 387	4
Geology 140	4
Industrial Arts 129	4
Education 232	4
Psychology 231, 457	8
Theatre Arts 431	4
Health Education 131, 330	8
PEM 228, 351, 378, 470, 471, 474, 476, 479	32
PEW 132, 252, 355, 356, 473	20
Electives	16
<hr/>	
Total	164 qtr. hrs.

COOPERATIVE DEGREE PROGRAMS

MEDICAL TECHNOLOGY

This program is administered by the Division of Pre-Medical Studies.

The curriculum in medical technology requires three years of study at Eastern Illinois University, followed by successful completion of a one-year program in medical technology in an affiliated hospital.

Course Requirements:

Botany 335	4 qtr. hrs.
Chemistry 120, 121, 122; or 150, 151, 152	12
Chemistry 234, 243, 244	12
Mathematics: Four quarter hours of mathematics required regardless of exemptions. Eight hours are required if student has no exemptions	4 or 8
Psychology 231	4

Life Science 100; Zoology 101, 225	12
Zoology 327 and one elective course in zoology	8
Physical Education service courses	6
Courses to complete the general requirements for the de- gree, Bachelor of Science, and elective courses	80-76
<hr/>	
Total	142

The hospital program in medical technology is accepted in lieu of the remaining forty-eight quarter hours to complete the normal graduation requirement.

ENGINEERING

This program is administered by the Division of Pre-Engineering Studies.

The curriculum has been planned to comprise three years of work at Eastern Illinois University and approximately two years of subsequent work in the College of Engineering at the University of Illinois. The degree, Bachelor of Science or Bachelor of Arts, is conferred by Eastern Illinois University upon the granting of an engineering degree at the University of Illinois after completion of the prescribed program. The purpose of this program is to provide engineering students with a broader base of liberal arts than is usually given in a four-year engineering curriculum.

Students who plan to enroll in this curriculum should have included in high school the courses recommended as preparation for the two-year pre-engineering curriculum described in Section IX.

The three years of work to be taken at Eastern Illinois University prior to transferring to the University of Illinois comprise:

General Requirements:

The general requirements for the degree, Bachelor of Science, or the degree, Bachelor of Arts.

Specific Courses:

Chemistry 150 (or 120 and 121), 151, 152

Physics 130, 131, 132, 236, 239, 240

Mathematics 134, 135, 235, 236, 237, 350

Industrial Arts 104

Six physical education service courses

Electives:

Elective credit to bring the total to 142 quarter hours.

After completing 102 quarter hours in this curriculum a student may apply to the pre-engineering committee for admission as an engineering candidate. The requirements for admission as an engineering candidate are minimum grade-point average of 2.5 and approval by the committee. Continuation as an engineering candidate requires maintaining a minimum grade-point average of 2.5.

The concentration in science and engineering is accepted in lieu of a major. If the complete record of a student includes the requirements for one or more majors as defined in the majors for the degrees, Bachelor of Science and Bachelor of Arts, these will also be certified on the student's record.

A student who transfers into this curriculum from another college or university must be in residence at Eastern Illinois University for at least one quarter before he becomes eligible for admission as an engineering candidate.

PRE-MEDICINE

This program is administered by the Division of Pre-Medical Studies.

There are two pre-medical curriculum plans which may lead to the degree, Bachelor of Science or Bachelor of Arts.

PLAN I:

This plan provides for the conferring of the baccalaureate degree with a major in zoology and a minor in chemistry upon completion of three years of stated requirements at Eastern Illinois University and forty-eight quarter hours of specified courses at the College of Medicine at the University of Illinois. Students who enter other medical schools will be considered on an individual basis.

The requirements for graduation are as follows:

General Requirements:

The general requirements for the degree, Bachelor of Science or Bachelor of Arts, except Health Education 120.

Specific Courses:

Chemistry 150, 151, 152; or 120, 121, 122

Chemistry 234, 243, 244

Life Science 100; Zoology 101, 212, 214, 215

Physics 130, 131, 132

Six physical education service courses

Electives:

Elective credit to bring the total course work at Eastern Illinois University to 142 quarter hours.

Transfer Credit:

The transfer of forty-eight quarter hours of approved credit from the University of Illinois College of Medicine. The transfer of this credit is contingent upon the following:

1. Biochemistry 301, 302, 303 (66 hours in lecture and 88 hours in laboratory
2. Residence requirements for a baccalaureate degree at Eastern Illinois University must have been met.

The following courses at the College of Medicine are acceptable to complete the major and minor at Eastern Illinois University:

1. Biochemistry 301, 302, 303 (66 hours in lecture and 88 hours in laboratory—9 quarter hours)
2. Physiology 301, 302, 303 (90 hours in lecture and 49 hours in laboratory—15 quarter hours)
3. Histology (64 hours in lecture and 160 hours in laboratory—12 quarter hours)
4. Gross Anatomy (64 quarter hours in lecture and 160 hours in laboratory—12 quarter hours)

PLAN II:

This plan leads to the degree, Bachelor of Science or Bachelor of Arts, prior to entering medical school. The plan provides for either an interdepartmental pre-medical studies major or a regular departmental major and minor.

The requirements for graduation are as follows:

General Requirements:

The student must meet all of the general requirements for the degree, Bachelor of Science or Bachelor of Arts.

Specific Courses:

If the interdepartmental major is chosen, the student must complete the following courses:

Chemistry 150, 151, 152; or 120, 121, 122

Chemistry 234, 243, 244

Chemistry electives—12 quarter hours

Life Science 100; Zoology 101, 212, 214, 215

Zoology electives—16 quarter hours

Physics 130, 131, 132

Mathematics 134, 235, 236

The student who chooses to complete a departmental major and minor will follow the regular requirements for the degree, Bachelor of Science or Bachelor of Arts.

Admission to Candidacy:

Students are required to make application for admission as pre-medical studies candidates upon completing sixty quarter hours of courses and before completing eighty-four quarter hours of credit. Requirements for approval of this application include a minimum grade-point average of 2.5 and approval by the pre-medical committee. The pre-medical committee will consider grades in science courses, impressions and findings resulting from personal interview, and the advice of the University physician regarding the physical fitness of the candidate.

Students who are not approved as candidates must transfer from the Division of Pre-Medical Studies into another curriculum.

Continuation as a pre-medical studies degree candidate requires the maintenance of a minimum grade-point average of 2.5.

A student who transfers from another institution to Eastern Illinois University must be in residence at least one quarter before he can be admitted as a pre-medical studies degree candidate. He must meet all residence requirements for a baccalaureate degree.

WOOD SCIENCE AND TECHNOLOGY

This cooperative degree program is administered by the Department of Botany at Eastern Illinois University (the first two-years phase) and the College of Agriculture at the University of Illinois. The degree B.S. in Forestry is awarded by the University of Illinois upon successful completion of their four-year program designed to prepare students to work with wood as a raw material. Wood technologists are concerned with new and better ways to use wood, with seasoning, manufacturing, purchase, sale, preservative and fire-retardant treatment, gluing, and finishing of wood. Upon completion of the two-year phase at Eastern Illinois University the student transfers to the University of Illinois by registering (in May of his second year) in the Forestry Summer Camp, an eight-weeks program at Blackfoot, Minnesota.

English 120, 130, 201	12 qtr. hrs.
Health Education 120	4
Speech 131	4
Chemistry 150 ¹ , 151, 152, 243	16
Life Science 100	4
Botany 101, 254	8
Mathematics 130, 131, 134 ²	12
Physics 130, 131, 132	12
Industrial Arts 104	4
Economics 254	4
Humanities ³	8
Social Science ³	8
Physical Education	6

 102 qtr. hrs.

- 1 Chemistry 120, 121, 122 may be substituted for Chemistry 150, 151, 152 if the student does not have the prerequisites for Chemistry 150.
- 2 Qualified students may substitute Mathematics 132, 134, 135; or 134, 135, 235. See the prerequisites for these courses given with the course descriptions.
- 3 The humanities two-course sequence and the social science two-course sequence should be selected from a list of approved sequences which may be obtained from the advisor.

VIII. GRADUATE DEGREE PROGRAMS

GRADUATE STUDY

ADMISSION AND READMISSION

Admission to take graduate courses is granted upon evidence of a standard baccalaureate degree from an accredited college or university; and * the student must:

1. Take either the Graduate Record Examination (GRE) or the Advanced Test, Graduate Study in Business (ATGSB). Either examination may be scheduled through the University Testing Service or the Graduate School;
2. have an undergraduate cumulative GPA of 2.25;
3. *or* lacking 2.25, a minimum of 2.5 in the major for the bachelor's degree;
4. *or* demonstrated ability as evidenced by earning a minimum score on the GRE or the ATGSB.
5. An unclassified or "non-degree" graduate student continues to be admitted to take graduate courses under the present regulations and should such student apply for degree status, admission to candidacy shall be determined by his scholastic record to date, scores on the GRE or ATGSB or on both the record and the GRE or ATGSB scores. The latter to be determined by the department admitting the student to candidacy.

Admission to courses is not to be interpreted as admission to candidacy for a degree.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least thirty calendar days before the first registration for graduate courses. Students who have attended Eastern Illinois University before must file an application for readmission at least ten calendar days prior to the official registration date for the quarter in which they wish to enroll. Application blanks may be secured from the office of the Dean of the Graduate School.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses.

* The following requirements must be met by those persons applying for admission on or after September 1, 1970.

Admission of Foreign Students. In addition to the regular application materials, overseas students are required to take the Test of English as a Foreign Language (TOEFL) Examination; the results of the examination must accompany the application blank.

GRADUATE STUDY IN THE SENIOR YEAR

During the final quarter of residence in undergraduate work, a student may take graduate courses with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. The proper application forms must be completed prior to enrolling in the graduate courses.

Military scholarships are valid for graduate study, and any unused portion of a Teacher Education Scholarship may be applied to graduate study.

GRADUATE ASSISTANTSHIPS AND FELLOWSHIPS

Graduate assistantships are available in the major field departments and certain administrative offices. The assistantships carry a stipend of \$270 per month and appointments are for the academic year or summer sessions. To be eligible the applicant must have earned an overall 2.5 undergraduate grade point average and been admitted to take graduate courses.

Fellowships are awarded each academic year by the various academic departments offering graduate degrees. They carry a stipend of \$155 per month. To be eligible the applicant must have earned an overall 2.5 undergraduate grade point average and been admitted to take graduate courses.

The registration fee and out-of-state fees, if applicable, are waived for holders of assistantships and fellowships.

Applications for the assistantships and fellowships should be submitted by March 1 of the year of appointment. Further information may be obtained by writing to the Dean of the Graduate School or the major department.

GRADUATE DEGREES OFFERED

MASTER'S DEGREES

MASTER OF SCIENCE IN EDUCATION DEGREE

Aim. It is the purpose of this program to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in the public schools.

Fields

Art
 Audio-Visual Education
 Biological Sciences
 Business Education
 Educational Administration
 Elementary Education
 English
 Foreign Languages
 Geography
 Guidance and Counseling
 History
 Home Economics
 Industrial Arts
 Mathematics
 Music
 Physical Education—Men
 Physical Education—Women
 Physical Sciences
 Social Sciences
 Speech
 Speech Pathology and Audiology

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

Aim. It is the purpose of these programs to provide intensive study designed to develop advanced scholarship in a particular discipline.

Fields. The following majors have been authorized for the Master of Arts and Master of Science degrees:

Master of Arts

Economics
 English
 French
 Geography
 History
 Mathematics
 Music
 Political Science
 Sociology
 Spanish
 Speech

Master of Science

Botany
 Chemistry
 Physical Education
 Physics
 Speech Pathology and Audi-
 ology
 Zoology

MASTER OF SCIENCE IN LIBRARY SCIENCE

MASTER OF BUSINESS ADMINISTRATION

Aim. The purpose of this program is to develop professional managers and executives to serve the needs of business and government, to prepare graduates for teaching in junior colleges, and to furnish basic graduate training for those desirous of continuing their graduate work.

SPECIALIST DEGREES*

SPECIALIST IN EDUCATION DEGREE

Aim. It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel in education administration.

Field. The Specialist in Education degree is offered in the field of educational administration.

GRADUATE DEGREE PROGRAM REQUIREMENTS

For detailed descriptions of the various graduate programs offered at Eastern Illinois University, see the *Graduate Bulletin*. Catalogs, application blanks and other materials may be obtained by writing to the Dean of the Graduate School.

* Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

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IX. NON-DEGREE PROGRAMS

The curricula outlined in this section have been formulated as suggested programs which do not lead to graduation. Changes may be made by the student and his advisor without the formality of application for a waiver, except that English 120, 130, Speech 131, and service courses in physical education must be taken as indicated.

PRE-ENGINEERING

These programs are administered by the Division of Pre-Engineering Studies.

GENERAL

Students planning to enroll in pre-engineering are advised to include the following subjects in their high school programs.

Mathematics—4 or more units, including trigonometry

Science—3 or more units, including chemistry and physics

Foreign Language—2 or more units, including two units in the same language

Students deficient in any of these courses should expect their graduation from a College of Engineering to be delayed.

First Year

English 120, 130	8 qtr. hrs.
Mathematics 134, 135, 235	12
Physics 130, 131, 132	12
Chemistry 150 (or 120 and 121), 151, 152	12
Humanities or social studies as outlined by advisor	4
Physical Education service courses	3

Note: Students who do not have prerequisites for Mathematics 134 must start with either 130 and 131, or 132; see course descriptions in Section X for prerequisites.

Second Year

English 201	4 qtr. hrs.
Mathematics 236, 237, 350	12
Physics 236, 239, 240	12
Industrial Arts 104	4
Humanities and social science as outlined by advisor	16
Physical Education service courses	3

Note: Students who do not have two years in the same foreign language in high school should add twelve quarter hours in a foreign language.

CHEMICAL*First Year*

Chemistry 150 (or 120 and 121), 151, 152	12 qtr. hrs.
English 120, 130	8
Industrial Arts 104	4
Mathematics 134, 135, 235	12

Note: Students who do not have prerequisites for Mathematics 134 must start with either 130 and 131, or 132; see course descriptions in Section X for prerequisites.

Physics 130, 131, 132	12
Students lacking two units in high school German, French, or Russian should enroll in one of these languages and postpone Physics 130, 131, 132 to the second year.	
Physical Education service courses	3

Second Year

Chemistry 283, 284, 285	12 qtr. hrs.
Mathematics 236, 237, 350	12
Physics 236, 239	8
English 201	4
Foreign Language (one year French, German, or Russian)	12
Physical Education service courses	3

Note: Physics 130, 131, 132 should be substituted here if language was taken in first year.

Two years of French, German, or Russian are required in the chemical engineering curriculum at most universities.

PRE-MEDICAL AND RELATED STUDIES

These programs are administered by the Division of Pre-Medical Studies.

PRE-DENTISTRY

The courses in this curriculum will enable the student to become a candidate for admission to most schools of dentistry. It is strongly urged, however, that students complete three years of pre-dental work. All applicants will be required to take a dental aptitude test given by the American Dental Association.

First Year

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130	8
Speech 131	4
Mathematics 130	4
Life Science 100, Zoology 101, 214	12
Elective	8
Physical Education	3

Second Year

Chemistry 234, 243, 244	12 qtr. hrs.
English 201	4
Physics 130, 131, 132	12
Electives	20
Physical Education	3

Note: It is recommended that the electives include history, economics, philosophy, sociology, and a modern language.

PRE-NURSING

Eastern Illinois University does not have a baccalaureate program in nursing. It is possible for students to complete one year at this institution and then transfer to the University of Illinois College of Nursing for the remaining three years. The first year program includes basic courses in chemistry, zoology, English, social studies and humanities.

PRE-OPTOMETRY

Schools of optometry usually require two years of pre-professional work.

First Year

English 120, 130	8 qtr. hrs.
Speech 131	4
Chemistry 120, 121, 122; or 150, 151, 152	12
Life Science 100; Zoology 101, 225	12
Mathematics 130, 131, 134	12
Physical Education	3

Second Year

English 201	4
Physics 130, 131, 132	12 qtr. hrs.
Psychology 231	4
Elective (Social studies, humanities, history)	28
Physical Education	3

PRE-PHARMACY*One Year*

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130	8
Mathematics 130, 131, 134	12
Electives to be selected in terms of the requirements of the College of Pharmacy selected by student	16

PRE-VETERINARY MEDICINE

This two-year program is designed to prepare students for admission to schools of veterinary medicine. Four years of professional study, preceded by two years of college study, are required in typical schools.

First Year

Chemistry 120, 121, 122; or 150, 151, 152	12 qtr. hrs.
English 120, 130	8
Speech 131	4
Mathematics 130	4
Life Science 100	4
Botany 101	4
Zoology 101	4
Electives	8
Physical Education	3

Second Year

Chemistry 234, 243, 244	12 qtr. hrs.
English 201	4
Physics 130, 131, 132	12
Foreign Language	12
Electives	8
Physical Education	3

Note: The recommended electives should include no fewer than two of the following fields: history, anthropology, economics, geography, political science, psychology, or sociology.

**PRE-AGRICULTURE, HORTICULTURE, FLORICULTURE,
AND FORESTRY**

First Year

English 120, 130, Speech 131	12 qtr. hrs.
Life Science 100; Botany 101, 102	12
Chemistry 120, 121; or 150, 151	8
Health Education 120	4
Electives	12
Physical Education	3

Second Year

Botany 229, 332, 254 or 335	12 qtr. hrs.
English 201	4
Geology 140 or elective	4
Zoology 101, 212	8
Electives	20
Physical Education	3

Students who plan to study vocational agriculture should take Psychology 231 and Education 232.

Students who plan to study forestry should take Chemistry 122 or 152 and Mathematics 130, 131, 134 in the first year. The second year's program should be planned after consultation with the College of Forestry the student plans to enter.

Recommended electives: Botany 230, Zoology 214, 338, Geography 141, 142, 151, Geology 140, 243, History 233, 234, 235, Economics 254, 255, 256.

PRE-CONSERVATION

A sub-professional curriculum which has been developed with the advice of administrators and technicians of the Soil Conservation Service is offered.

First Year

English 120, 130, Speech 131	12 qtr. hrs.
Mathematics 130	4
Life Science 100	4
Botany 101, 102	8
Chemistry 120, 121, 122; or 150, 151, 152	12
Geography 141	4
Geology 140	4
Physical Education service courses	3

Second Year

Zoology 101, 212	8 qtr. hrs.
English 201	4
Geography 142, 286, 360, 380, 387	20
Industrial Arts 104	4
History 234, 235	8
Elective	4
Physical Education service courses	3

PRE-JOURNALISM

The program suggested below is designed to provide a general background for prospective journalism majors. Students should modify the following two-year program to meet the requirements of the journalism school they plan to attend.

First Year

English 120, 130, Speech 131	12 qtr. hrs.
Laboratory Science	12
Journalism 210, 211, 212	12
Foreign Language	12
Physical Education service courses	3

Second Year

English 201; 355 or 356; any American literature	12 qtr. hrs.
History 233, 234, 235	12
Electives	24
Physical Education service courses	3

Note: Recommended electives: Industrial Arts 315; Economics 254; Political Science 100, 260; Sociology 271, 368; Philosophy 270, 330.

PRE-LAW

There is no formal curriculum for pre-legal studies. Students are referred to advisors who will counsel with them concerning the requirements for admission to law schools. Ordinarily, the student will take a bachelor's degree with major and a minor in standard academic disciplines. See the Political Science Department for further information.



X. DESCRIPTION OF COURSES

COURSE NUMBERING

Generally, courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses; and 500-699, graduate courses. However, if prerequisites are met students may enroll according to the following schedule.

CLASS

COURSES NUMBERED

Freshman	100	200	a	a	
Sophomore	100	200	300	a	
Junior	100	200	300	400	
Senior	100	200	300	400	500-549b
Graduate				450-499c	500-690

- a. Courses numbered 300-499 in foreign languages, mathematics, and chemistry may be taken by underclassmen who have prerequisites and permission of the department head.
- b. With 3.0 GPA and permission of instructor and Dean of Graduate School.
- c. Certain courses only.

COURSE DESCRIPTIONS

Numbers in parentheses following the course title indicate the number of class hours per week — laboratory or studio hours per week — credit hours. For example (4-0-4) indicates four hours of classroom work each week, no laboratory hours, and four quarter hours credit.

Prerequisites for courses are printed in italics immediately following the course description. A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he may not receive credit for the course toward graduation.

Unless indicated as below, courses are offered every quarter. Offering times indicated are:

- F — Fall Quarter
- W — Winter Quarter
- S — Spring Quarter
- Su — Summer Quarter or Term

COLLEGE OF LETTERS AND SCIENCE

Anthropology	183
Art	184
Botany	192
Chemistry	196
Economics	201
English	205
Foreign Languages	213
Geography	225
Geology	230
History	232
Journalism	238
Library Science	239
Life Science	241
Mathematics	241
Philosophy	249
Physical Science	251
Physics	252
Political Science	256
Psychology	262
Social Science	264
Sociology	265
Speech	268
Speech Pathology and Audiology	271
Theatre Arts	275
Zoology	276

ANTHROPOLOGY

(Taught in the Department of Sociology and Anthropology)

UNDERGRADUATE COURSES**273. Introduction to Anthropology. (4-0-4)**

A study of the races of the world, preliterate culture, kinship systems, major institutions and social structure.

325. Social Structure. (4-0-4) W.

A review of descriptive techniques and the methods of structural and functional analysis used by the social anthropologist.

Prerequisite: Anthropology 273.

360. Peoples and Cultures of South America. (4-0-4) F.

The pre-Colombian background; contemporary races, culture and social organization of selected Latin American societies.

Prerequisite: Anthropology 273.

363. Peoples and Cultures of Africa. (4-0-4) F.

A study of the peoples and cultures in Africa, particularly West Africa, during colonization, and of their progress as emerging nations.

Prerequisite: Anthropology 273.

365. Introduction to Physical Anthropology. (4-0-4) Su, W.

Investigation of man's place in nature; emphasis on principles of biological evolution as reflected by fossil evidence.

Prerequisite: Anthropology 273.

367. Introduction to Prehistoric Archaeology. (4-0-4) F.

Study of the history, method, theory and goals of archaeology; interpretation and analysis of prehistoric cultures.

Prerequisite: Anthropology 273.

368. Midwest Prehistory. (4-0-4) S.

A study of midwestern archaeology including both major cultures and regional variations. Their chronology and interrelationships will be stressed.

Prerequisite: Anthropology 273.

369. North American Indians. (4-0-4) W.

A survey of the native population of North America emphasizing the importance of cultural adaptation to environment.

Prerequisite: Anthropology 273.

372. Archaeology of the Middle East. (4-0-4) S.

Study of the origins and prehistory of man in the Tigris-Euphrates Valley,

the Anatolian Peninsula, and the eastern Mediterranean region.

Prerequisite: Anthropology 273.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

454. Theories of Culture and Social Change. (4-0-4) S.

An investigation of anthropological theories and models which have contributed to an understanding of culture and social change.

Prerequisite: Anthropology 273.

470. Field Techniques in Archaeology. (2-8-6) (Omitted 1970-71.)

The techniques, methods, and procedures of archaeology will be discussed and practiced in actual working conditions on an archaeological excavation.

Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 471.

471. Laboratory Techniques and Problems in Archaeology. (2-8-6) (Omitted 1970-71.)

Laboratory work in the field; studying, evaluating, and writing final reports on the associated fieldwork.

Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 470.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

552. Cultural Anthropology. (4-0-4) Su.

An introduction to the scientific study of man and his culture. Cross cultural comparison of the major social institutions.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

ART

Note: Studio courses meet for three double periods and one single period which is used for planning, discussions, and reports. Additional discussions may be incorporated into the studio hours.

Certain courses require the purchase of materials by the student. In such cases, completed projects become the property of the student. The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

UNDERGRADUATE COURSES

100. Drawing I. (4-4-4)

Freehand drawing in various media; studies from nature designed to develop an interpretative approach.

101. Drawing II. (4-4-4)

Drawing from life; a development of individual expression and a continuing study of drawing technique.

Prerequisite: Art 100. For art majors and minors only.

110. Design I. (4-4-4)

Introduction to basic aspects of design problems dealing with color, texture, line, form, and organization.

Credit is not granted to students who have received credit in Art 140.

111. Design II. (4-4-4)

Development of three-dimensional organization of forms using various media.

Credit is not granted to students who have received credit in Art 319. For majors and minors only in art, industrial arts, and industrial technology.

140. Introduction to Art. (4-4-4)

Study of the functions of art in our environment with studio problems provide creative experiences in designing.

Prerequisite: Enrollment in a curriculum for elementary or junior high school teachers. Credit is not granted to students who have received credit in Art 110.

160. Introduction to Visual Arts. (4-0-4) Su, F, W.

Nature of art as revealed in works of painting, sculpture, architecture, and minor forms of art.

For art majors and minors only.

165. Theory and Fundamentals of Art. (2-4-4)

Consideration of the basic aspects of the creation of form in the two-dimensional and three-dimensional visual arts. Studio experiences included.

May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is in art (except art history majors for B.A.) or to students whose major is in Elementary Education. Not open to students who have credit for Art 360.

205. Painting I. (4-4-4)

Introduction to painting as a medium of expression; variety of approaches and media explored.

Prerequisites: Art 100 and 110.

225. Ceramics I. (4-4-4)

Introduction to various hand-building techniques; decorative methods; firing process; use of potter's wheel.

Prerequisite: Art 110 or 111. For art majors and minors only.

244. Art for Teachers in the Elementary Grades. (2-4-4)

Development stages of children's artistic activity; motivation, classroom

management, and appropriate use of art media for each stage stressed. Studio.

Prerequisite: Art 140.

260. History of Art I. (4-0-4) F.

Development of visual arts from pre-historic time to the medieval period.
For art majors and minors only.

261. History of Art II. (4-0-4) W.

Art of the medieval period; the Renaissance through the seventeenth century; includes brief survey of art of the Far East.

Prerequisite: Art 260. For art majors and minors only.

262. History of Art III. (4-0-4) S.

General survey concerning the artistic achievements of man from the beginning of Mannerism to the present.

Prerequisite: Art 261. For art majors and minors only.

265. Fundamental Concepts of Two-Dimensional Form. (2-4-4)

An investigation through discussion and studio experimentation of some of the major concepts of two-dimensional form. Historical and cultural aspects will be considered in conjunction with the visual form.

Prerequisite: Art 165 or 360. May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is art or to students whose major is in the School of Elementary and Junior High School Teaching.

266. Fundamental Concepts of Three-Dimensional Form. (2-4-4)

Characteristics of three-dimensional form considered through discussion and studio. Emphasis on relevance of aesthetic object to the general culture.

Prerequisite: Art 165 or 360. May be used as partial fulfillment of the humanities requirement. Not open to students whose major or minor is in art or to students whose major is in the School of Elementary and Junior High School Teaching.

270. Introduction to Jewelry I. (4-4-4)

Decorative and constructive processes in the use of silver or other metals.

Prerequisite: Art 110 or 111 or 140.

280. Introduction to Weaving. (4-4-4) F, W, S.

Procedures involved in dressing the loom. Production of various weaves on the loom and experimentation with color, textures, and materials.

Prerequisite: Art 110 or 140.

290. Lettering. (4-4-4) F.

Design and formation of basic styles of letters—Roman, Modern, and Text; development of skills of lettering with pen and brush.

Prerequisite: Art 110 or 140 or permission of the instructor.

300, 301, 302. Drawing III, IV, V. (4-4-4 each course) F, W, S.

Advanced drawing designed to develop individual sensitivity to form in two dimensions; development of an expressive and personal interpretation.

Prerequisites: Art 100 and 101.

305, 306, 307. Painting II, III, IV. (4-4-4 each course)

Study of types of painting; craftsmanship and expression in several media stressed through progressive stages of the three courses.

Prerequisite: Art 205.

309. Survey of Two-Dimensional Art. (4-4-4) Su, W, S.

Studio experiences to provide the student with basic knowledge of aesthetic expression through experiences in two-dimensional media.

Prerequisite: Art 140 and enrollment in a curriculum for elementary or junior high school teachers.

310, 311, 312. Sculpture I, II, III. (4-4-4 each course)

Advanced work in three-dimensional organization of form; individual concentration toward competent expression in three dimensions.

Prerequisite: Art 111.

319. Survey of Three-Dimensional Art. (4-4-4) Su, F, S.

A study of three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry and crafts.

Credit is not granted to students who have received credit in Art

111. Prerequisite: Art 140 and enrollment in a curriculum for elementary or junior high school teachers.

325, 326. Ceramics II, III. (4-4-4 each course)

Projects in hand building or throwing; study of glaze materials and glaze calculations.

Prerequisite: Art 225.

327. Ceramics IV. (4-4-4)

Individual selection of ceramic problems including ceramic sculpture, porcelain, whitewares.

Prerequisite: Art 326.

330. Afro-American Art. (4-0-4) W.

Contributions of the Negro peoples to the art of the western world.

334. General Crafts. (4-4-4) W, S.

General course in crafts in which students may elect to work in problems such as mosaics, glass, and wood.

Prerequisite: Art 110 or 140 or 165.

340. The Teaching of Art. (2-4-4) F, S.

Philosophy of art education; study of the developmental stages through grade six; appropriate studio experiences for each stage.

Prerequisite: Admission to teacher education.

341. Art Education for Secondary Schools. (2-4-4) F, W.

The study of the philosophy and special problems related to teaching art in the junior and senior high school, with appropriate studio experiences.

Prerequisite: Art 340.

356. Print Making I. (4-4-4) Su, F, W.

Survey and laboratory exploration of four methods of print-making: relief, intaglio, planography, and stencil.

Prerequisites: Art 100 and 101.

357, 358. Print Making II, III. (4-4-4) 357-Su, F, S. 358-Su, W, W, S.

Intensive exploration of intaglio and serigraphy as two methods of print making; major emphasis on the intaglio method.

Prerequisite: Art 356.

360. Understanding Art. (4-0-4) F, W, S.

Aesthetic problems and their solutions in various fields of art as related to man and his culture.

Not open to students whose major is in art or in Elementary Education. This course is recommended as partial fulfillment of the humanities requirement. Credit is not granted to students who have credit for Art 165.

361. Art in Past Cultures. (4-0-4)

Comparative study of subject, form and content in art of past cultures as it relates to purpose and style.

Prerequisite: Art 165 or 360. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.

362. Art Forms of the Twentieth Century. (4-0-4) F, W, S.

Origins and developments of form and content in twentieth century art.

Prerequisite: Art 165 or 360. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.

363. Classical Art. (4-0-4) (Omitted 1970-71.)

Greek and Roman art, including architecture, painting, sculpture and the minor arts; study of major figures and dominant stylistic tendencies.

Prerequisite: Art 262 or 360.

364. Medieval Art. (4-0-4) W.

Arts of the Middle Ages — Early Christian, Byzantine, Romanesque,

and Gothic, emphasizing in particular the transition from pagan to Christian art forms.

Prerequisite: Art 262 or Art 360.

365. Art of the Italian Renaissance. (4-0-4) (Omitted 1970-71.)

Evolution and development of art forms in Italy during the fifteenth and sixteenth centuries; emphasis on the painting, sculpture and architecture.

Prerequisite: Art 262 or Art 360.

366. European Art of the Seventeenth and Eighteenth Centuries. (4-0-4) (Omitted 1970-71.)

Study of the Baroque style in Italy and Northern Europe, including Rococo manifestations and relationships with the Baroque movement.

Prerequisite: Art 261 or 360.

367. Nineteenth Century European Painting. (4-0-4) (Omitted 1970-71.)

Leading artists, movements and trends found in the painting and culture of France, Germany, Spain and England during the nineteenth century.

Prerequisite: Art 262 or 360.

368. Twentieth Century Painting and Sculpture. (4-0-4) (Omitted 1970-71.)

Major developments, personalities, and significant achievements in painting and sculpture of the twentieth century.

Prerequisite: Art 262 or 360.

369 (463). Twentieth Century Architecture. (4-0-4) Su, S.

Architecture of the twentieth century; its roots in the past, its forms, its materials, its masters, and its social impact.

Prerequisite: Art 262 or 360.

370, 371, 372. Jewelry and Silversmithing II, III, IV. (4-4-4 each course)

Advanced problems in jewelry construction developing previously learned techniques in metal construction; introduction to basic silversmithing processes.

Prerequisite: Art 270.

380. Weaving II. (4-4-4) F, W, S.

Study of the theory of weaving and continued work on multi-harness looms to perfect skills. Experimenting with weaves and materials.

Prerequisite: Art 280.

390, 391. Commercial Design I, II. (4-4-4 each course) Su, W, S.

Lettering, posters, layout, current advertising problems. Silk screen, air-brush, and other printing techniques. Display advertising.

405, 406, 407. Painting V, VI, VII. (4-4-4 each course)

Advanced painting in a series of individual problems courses; opportunity for further intensive development of each student's creative expression.

Prerequisite: Art 307.

410, 411, 412. Sculpture IV, V, VI. (4-4-4 each course)

Advanced study of sculpture with an increasing depth of experience in form and material. Organization of an individual plan of work.

Prerequisite: Art 312.

425, 426, 427. Ceramics V, VI, VII. (4-4-4 each course)

Development of techniques and processes to a level of professional attainment; emphasis upon growth in the area of student interest.

Prerequisite: Art 327.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**465. The Visual Arts in the Elementary and Junior High School. (4-0-4) W, S.**

Our cultural heritage in visual arts for teachers; approaches to fostering appreciation of this heritage.

Prerequisite: Art 244. Not open to students whose major is in art.

469. Studies in Art History and Criticism. (4-0-4) Su.

Seminar studies in painting, sculpture and architecture.

Prerequisite: Permission of the instructor.

475. Sources and Methods of Art History. (4-0-4) W.

A study of archaeological and documentary sources relative to the writing of art history; the systematic correlation of factual information.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

476. The Art of the Ancient Near East. (4-0-4) F.

A study of the art of the Tigris-Euphrates Valley cultures from about 3500 to 500 B. C. Sumerians, Babylonians, Hittites, Assyrians, and Persians.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

477. Art of Ancient Egypt (4-0-4) Su.

A study of the evolution of architectural monuments and their attendant art from the Predynastic era to the Ptolemaic period.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Materials for Designing I. (4-4-4)

Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.

520. Painting Problems I. (4-4-4) Su, F, W.

Techniques and media used by painters in development of different styles of painting, with opportunity for experience in working in each.

Prerequisite: Three undergraduate courses in painting.

550. Contemporary Trends in Visual Arts. (4-0-4) Su.

Role and evaluation of visual arts in contemporary living.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Great Artists. (4-0-4) (Omitted 1970-71.)

A cross-section of art history presented by the study of great artists.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Contemporary Printmaking. (4-4-4) Su, F.

A study of styles and techniques of contemporary printmakers.

Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.

560. Materials for Designing II. (4-4-4) W.

Advanced study of organization of form employing a variety of materials.

561. Advanced Drawing. (4-4-4) F, W.

Development of personal expression in drawing and marking systems.

Prerequisite: Three courses in undergraduate drawing or permission of the instructor.

562. Watercolor. (4-4-4) Su, S.

Advanced study in various watercolor media.

Prerequisite: Three courses in undergraduate painting.

570. Painting Problems II. (4-4-4)

Independent study in painting.

Prerequisite: Art 520.

571. Painting Problems III. (4-4-4) Su, S.

Emphasis is placed upon the construction and development of form.

Prerequisite: Art 570.

580. Research in Art Education. (Arr.-Arr.-4) Su.

Familiarization with research in art education, the study of methods and structure of research, and the initiation of research projects.

Restricted to art majors only.

591. Problems in Art Education. (Arr.-Arr.-4) Su, S.

Statement, analysis and evaluation of current problems in the teaching of art in the public schools and junior college.

595. Thesis. (Arr.-Arr.-4)**BOTANY**

Note: For the Botany Major, courses are grouped for curriculum selection as follows:

Required courses: Botany 101, 102, 229, 230, 254

Group I: 335, 350, 454

Group II: 456, 459, 461

Group III: 332, 345, 430, 435, 436, 438, 440, 450, 453, 499

UNDERGRADUATE COURSES**101. General Botany. (2-4-4)**

The diversity of plants; the structure and function of the seed plant.

Prerequisite: Life Science 100.

102 (222). Survey of Local Flora. (2-4-4) Su, F, S.

The identification and recognition of local plants.

Prerequisite: Botany 101.

229. Morphology of Lower Plants. (2-4-4)

The classification, structure, and life histories of algae and fungi.

Prerequisite: Botany 101.

230. Morphology of Higher Plants. (2-4-4)

The classification, structure, and life histories of bryophytes and vascular plants.

Prerequisite: Botany 101.

234. Food and Sanitary Microbiology. (2-4-4)

Bacteria and molds; their relation to food preservation and sanitation.

Prerequisites: One quarter of chemistry and an additional quarter of laboratory science. This course is designed for the home economics, elementary and junior high curricula; not to count toward a botany major or minor.

254 (233). Introductory Plant Physiology. (2-4-4) S.

Water relations; mineral nutrition; phytohormones; environmental effects on plant growth and development.

Prerequisite: Botany 101. A year of chemistry is recommended.

325. Elementary Medical Microbiology. (2-4-4) W.

The basic principles and laboratory procedures of medical microbiology.

Prerequisites: Three quarters of biology and three quarters of chemistry. This course is designed for students in medical technology, pre-dentistry,

pre-medicine, and pre-veterinary medicine.

332 (232). Economic Botany. (4-0-4)

The origin and utilization of plant products.

Prerequisite: Botany 101; Botany 102 recommended. This course is not to count toward the natural sciences requirement.

335. Introductory Bacteriology. (2-4-4)

The basic principles and laboratory procedures of bacteriology.

Prerequisites: Three quarters of biological sciences and three quarters of chemistry. This course is designed for majors and minors in the biological sciences.

345. Independent Study. (Arr.-Arr.-4)

The student must submit an outline of his plan of work to the Department Head for approval and assignment to an instructor.

Prerequisite: Botany major or minor.

350. Genetics. (2-4-4). Su, W.

Principles of heredity and variation in living organisms with special emphasis on plants.

Prerequisites: Life Science 100 and two additional courses in laboratory science; chemistry recommended.

430. Introductory Phycology. (2-4-4) S.

The structure, classification, and importance of algae, with emphasis on fresh-water forms.

Prerequisite: Botany 229.

435. Intermediate Bacteriology. (2-4-4) S.

Microbial physiology as it relates to taxonomy, ecology, and applied bacteriology.

Prerequisite: Botany 335.

436. Introductory Mycology. (2-4-4) W.

The structure, classification, and importance of fungi.

Prerequisite: Botany 229.

438. Introductory Plant Pathology. (2-4-4) F.

General aspects of cause, symptoms, spread and control of plant diseases.

Prerequisite: Botany 229.

440. Introductory Paleobotany. (2-4-4) F.

The fossil plants of past geological eras.

Prerequisites: Botany 229 and 230; Geology 243 is recommended.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. Tropical Botany. (4-14-12) Su.

The taxonomy and ecology of the plants of Mexico. (Four weeks on campus and six weeks in Mexico).

Prerequisites: Life Science 100 or Botany 101.

453. Plant Microtechnique. (2-4-4) W.

Techniques of preparing microscope slides of plant material.

Prerequisite: Botany 456 recommended.

454. Intermediate Plant Physiology. (2-4-4) Su, S.

Metabolic effects on plant growth and development; photosynthesis; respiration; physiological ecology.

Prerequisites: Botany 254 and one year of chemistry.

456. Plant Anatomy. (2-4-4) S.

The tissues and elements which comprise the vegetative plant body of seed plants.

Prerequisite: Botany 230.

459. Systematic Botany. (2-4-4) F.

Common families of flowering plants; current trends in plant classification.

Prerequisite: Botany 102.

461. Plant Ecology. (2-4-4) Su, F.

Community structure, successional patterns and basic investigational techniques.

Prerequisites: Botany 102 and two advanced courses in botany or related fields. Botany 254 and 459 are recommended.

499. Seminar. (2-0-2) F, W, S.

Reports and discussions of selected topics in botany.

Prerequisites: Five courses in botany.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Plant Geography. (2-4-4) W.

Factors influencing vegetational distribution, especially as illustrated in North America.

Prerequisite: Botany 461.

530. Phycology. (2-4-4) Su, S.

A comparative morphological and physiological survey of the major groups of algae, including both fresh-water and marine forms.

Prerequisite: Botany 229.

532. Bryology. (2-4-4) F.

The taxonomy, morphology, physiology, and ecology of mosses and liverworts.

Prerequisite: Botany 230.

535. Advanced Bacteriology. (2-4-4) (Omitted 1970-71.)

Selected topics in bacterial cytology and physiology.

Prerequisite: Botany 335; Chemistry 234, 243, 244, or permission of instructor.

536. The Lower Fungi. (2-4-4) W.

The taxonomy, morphology, and ecology of the major groups of Phycomycetes and related fungi.

Prerequisite: Botany 229; Botany 335 is recommended.

537. The Higher Fungi. (2-4-4) (Omitted 1970-71.)

The taxonomy, morphology, and ecology of the major groups of Ascomycetes and Basidiomycetes.

Prerequisite: Botany 229; Botany 335 is recommended.

538. Plant Pathology. (2-4-4) F.

The causes and controls of plant diseases; representative plant diseases.

Prerequisite: Botany 229.

540. Paleobotany. (2-4-4) (Omitted 1970-71.)

Fossil plants and their contribution to the understanding of plant evolution.

Prerequisites: Botany 229 and 230; Geology 243 is recommended.

545. Ethnobotany. (2-4-4) (Omitted 1970-71.)

The relationship between plants and man, with emphasis on primitive man.

Prerequisite: Botany 101 or by permission of instructor.

547. Advanced Plant Physiology—Inorganic Nutrition. (2-4-4) (Omitted 1970-71.)

Absorption, translocation, and function of the essential mineral elements; water relations in plants; soils.

Prerequisites: Botany 454 and Chemistry 243 or 346.

548. Advanced Plant Physiology—Metabolism. (2-4-4) (Omitted 1970-71.)

Photosynthesis; respiration; organic translocation; utilization of fats, carbohydrates, and proteins.

Prerequisites: Botany 454 and Chemistry 243 or 346.

560. Cytogenetics. (2-4-4) (Omitted 1970-71.)

The structure and function of chromosomes and other cell organelles; evolution and variation of karyotypes.

Prerequisite: Botany 350.

561. Ecological Methods. (2-4-4) (Omitted 1970-71.)

Vegetation and soil analyses, microenvironmental measurements and physiological procedures used in ecological studies.

Prerequisite: Botany 461 or equivalent.

569. Advanced Taxonomy. (2-4-4) Su, S.

Genetics, cytology, and their relation to the evolution of Angiosperms.

Prerequisite: Botany 459 or permission of instructor.

575, 576, 577, 578. Advanced Botany. (Arr.-Arr.-4 each course)

Advanced work in a selected field of botany.

Prerequisite: At least a minor in botany or its equivalent and the instructor's permission.

595. Thesis. (Arr.-Arr.-4)

CHEMISTRY

UNDERGRADUATE COURSES

Chemistry 110, 111, and 112 is a year's sequence planned as a general cultural course and is open only to non-science majors.

Chemistry 120, 121, and 122 is a year's sequence planned primarily for students in the biological sciences and the various pre-professional programs in the medical related fields. For those not qualified in terms of background for Chemistry 150, but who are required to take Chemistry 151 and 152, the student may substitute Chemistry 120 and 121 for Chemistry 150.

Chemistry 150, 151 and 152 is a year's sequence planned primarily for students majoring in the sciences, mathematics and pre-engineering. The approach is more quantitative than in the other sequences and a reasonably good background in high school chemistry and in mathematics is required.

Except for the sequence Chemistry 120, 121, 151, 152, only three 100-level chemistry courses can be accepted for credit toward graduation. The following are acceptable sequences: 110, 111, 112; 120, 121, 122; 150, 151, 152; 120, 151, 152; 120, 151, 122; 150, 121, 122; 150, 151, 122.

Note: A breakage fee of \$3.00 is charged for laboratory courses in Chemistry. The unused portion is returnable at the end of the course.

110, 111, 112. A Survey of Chemistry. (2-4-4 each course) 110-Su, F, W; 111-W, S; 112-Su, S.

A three quarter terminal course covering the principles and cultural aspects of inorganic, organic and biochemistry.

To be taken in sequence.

These courses may not be used as a prerequisite to advanced work

in chemistry. Not open to majors in botany, chemistry, geology, mathematics, physics, zoology or any of the pre-professional programs in engineering or the medically related fields.

120, 121, 122. Elementary Chemistry. (3-3-4 each course)

A study of the principles of chemistry and the properties of some metals and non-metals. Qualitative analysis is part of the third term.

To be taken in sequence.

150, 151. General Chemistry. (3-3-4 each course) 150-F; 151-W, S.

The principles of chemistry are stressed from a quantitative standpoint.

Prerequisite: One unit of high school chemistry and two and one-half units of high school mathematics. Students with less than a B— average in high school chemistry or less than a C+ average in mathematics are advised to take both Chemistry 120 and 121 in place of Chemistry 150. Either Chemistry 150 or Chemistry 120 and 121 are prerequisite to Chemistry 151.

To be taken in sequence.

152. General Chemistry and Qualitative Analysis. (2-5-4) Su, S.

A continuation of Chemistry 150 and 151. The laboratory work is concerned with semi-micro qualitative analysis.

Prerequisite: Chemistry 151.

234. Elementary Quantitative Analysis. (2-6-4) Su, F, S.

The general principles of volumetric and gravimetric analysis with an introduction to spectrophotometry.

Prerequisite: Chemistry 122 or 152; one course in college mathematics. Credit not granted to those with credit in Chemistry 330.

243, 244, 245. Organic Chemistry. (2-4-4 each course) 244-Su, W, S; 245-S.

Studies of aliphatic and aromatic compounds with an introduction to the theories of organic chemistry and reaction mechanisms.

Prerequisite: Chemistry 122 or 152 or simultaneous registration therein. To be taken in sequence. Credit not granted to those with credit in Chemistry 283, 284, 285.

283, 284, 285. Organic Chemistry for Majors. (3-6-5 each course) 283-F; 284-W; 285-S.

Studies of aliphatic and aromatic compounds, stressing theories and reaction mechanisms. The laboratory work includes qualitative analysis.

Prerequisite: Chemistry 152 or simultaneous registration therein.

To be taken in sequence. Credit not granted to those with credit in Chemistry 243, 244, 245. Non-majors may register for these courses with permission of the department head.

330. Quantitative Analysis for Majors. (3-6-5) F.

A study of the principles and practice of gravimetric and volumetric analysis, chemical stoichiometry and the evaluation of analytical data.

Prerequisites: Chemistry 152 and 283 or simultaneous registration therein.

Credit not granted to those with credit in Chemistry 234. Non-majors may register for this course with permission of the department head.

342. Practicum in Chemistry. (0-2-1)

Practical experience is acquired in preparing and handling chemical materials, supervising a chemical stockroom and assisting in a chemistry laboratory.

Prerequisite: Two years of college chemistry. Should be completed prior to student teaching. Enrollment is restricted to chemistry majors.

346. Biochemistry. (3-3-4) Su, S.

Chemistry of biologically important compounds and an introduction to their roles in living material.

Prerequisite: Chemistry 244; (Chemistry 234 is recommended.)

400, 401. Undergraduate Seminar. (1-0-1 each course) F, W, S.

A thorough search of a recent development in chemistry and the presentation of a talk based on this search.

To be taken in sequence.

400 for juniors; one meeting per week, F, W, S.

401 for seniors; one meeting per week, F, W, S.

403. Chemical Literature. (2-0-2) F.

An introduction to use of the various kinds of chemical literature.

Restricted to chemistry majors.

420, 421, 422, 423. Independent Study. (0-6-2 each course)

Laboratory or library problems in which the student works under the supervision of a staff member. A written report is required.

Prerequisite: Permission of the instructor and department head. Two or more of these courses may be taken simultaneously.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

461. Modern Inorganic Chemistry. (3-3-4) Su, W.

A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory.

Prerequisites: Chemistry 491, 492, 493 or simultaneous registration therein.

470. Instrumental Methods of Analysis. (2-6-4) Su, F, S.

Instrument design, operation and applications of UV, visible, IR, flame and atomic spectroscopy, VPC, potentiometry and polarography.

Prerequisites: Chemistry 284 and 330 or permission of instructor.

481. Qualitative Organic Analysis. (2-5-4) F.

Organic structure determination with emphasis on modern instrumental techniques.

Prerequisite: Chemistry 285 (or 245) or simultaneous registration therein.

485. Chemistry of Natural Products. (2-4-4) (Omitted 1970-71.)

A study of principles and techniques employed in research in natural product chemistry and biologically related fields.

Prerequisites: Chemistry 285 (or 245) and 330.

491, 492, 493. Physical Chemistry. 491-(4-0-4)-F; 492-(3-3-4)-W; 493-(3-3-4)-S.

A study of the principles governing chemical change. Included are: thermodynamics, kinetics, quantum theory and statistics.

Prerequisite: Chemistry 283 (or 243), 330 (or 234), Mathematics 236 or simultaneous registration therein; Physics 130, 131, 132.

494. Nuclear Chemistry. (2-4-4) W.

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Prerequisite: Five terms of chemistry including Chemistry 330 (or 234).

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Seminar. (2-0-2) (Omitted 1970-71.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisites: Chemistry 285 and 330.

501. History of Chemistry. (4-0-4) Su.

The historical development of the science of chemistry is studied with the extensive use of reference materials.

Prerequisite: Two years of chemistry.

512. Theoretical Inorganic Chemistry I. (4-0-4) Su.

A study of the theoretical basis of inorganic chemistry including atomic structure, molecular structure and chemical bonding.

Prerequisites: Chemistry 461 and 493.

513. Theoretical Inorganic Chemistry II. (4-0-4) S.

Recent advances in coordination chemistry including acid-base theory, mechanisms of inorganic reactions and spectroscopic application.

Prerequisites: Chemistry 461 and 493.

520. Chemical Thermodynamics. (4-0-4) F.

A study of the laws governing the passage of energy from one chemical system to another and the transformation of energy from one form to another.

Prerequisite: Chemistry 493.

522. Electrochemistry. (4-0-4) (Omitted 1970-71.)

A study of equilibrium and non-equilibrium properties of electrolyte solutions, including activities, conductance, diffusion and electrode phenomena.

Prerequisite: Chemistry 520.

523. Quantum Chemistry. (4-0-4) (Omitted 1970-71.)

A study of the structure of atoms and molecules as explained by quantum theory. Applications to questions of chemical interest are emphasized.

Prerequisite: Chemistry 493.

528. Chemical Kinetics. (4-0-4) Su, S.

A study of the rates and mechanisms of chemical reactions and those factors influencing the rate process.

Prerequisite: Chemistry 520 or permission of instructor.

530. Spectrometric Chemical Analysis. (4-0-4) W.

A study of the theory and quantum principles of IR, UV, and NMR spectroscopy, including spectrometric identification of chemical compounds.

Prerequisite: Chemistry 493; Chemistry 470 is desirable.

540. Organic Reaction Mechanisms. (4-0-4) Su, F.

A study of the mechanisms of reactions in organic chemistry.

Prerequisites: Chemistry 285 (or 245) and 493 or permission of the department head.

543. Special Topics in Organic Chemistry. (4-0-4) W.

A study of topics not ordinarily covered in the basic introductory organic chemistry courses.

Prerequisite: Chemistry 285 (or 245); Chemistry 493 recommended.

546. Biochemistry. (4-0-4) S.

General biochemistry; basic mechanisms of biological processes; enzyme action; genetic and hormonal control; metabolic cycles.

Prerequisites: Chemistry 284 and 330.

556. Research in Chemistry.

(May be taken one, two or three times for 4, 8 or 12 q. hrs.)

A problem is selected in the area of the student's major interest after consultation with the department head and the instructor.

Prerequisite: Permission of the department head.

595. Thesis. (Arr.-Arr.-4)

ECONOMICS**UNDERGRADUATE COURSES****254. Principles of Economics. (4-0-4)**

A short introduction followed by a macroeconomic analysis of monetary and fiscal policy.

255. Principles of Economics (continued). (4-0-4)

Microeconomic analysis concerned with product and factor pricing.

Prerequisite: Economics 254.

256. Principles of Economics (continued). (4-0-4)

Problem solving in an international and domestic setting.

Prerequisite: Economics 255.

320. International Economics. (4-0-4) Su, F.

Principles of foreign trade and finance; balance of payments; tariffs; quotas and commercial policies of major countries.

Prerequisite: Economics 256 or permission of instructor.

356. Government and Business. (4-0-4) W.

The market structures in which business operates; public policies for regulation and control of those markets.

Prerequisite: Economics 256 or permission of the instructor.

357. Labor Economics. (4-0-4) Su, F.

Wage theory, history of the labor movement, collective bargaining, labor law, and protective labor legislation.

Prerequisite: Economics 256 or permission of the instructor.

358. American Economic Development. (4-0-4) S.

Evolution of the economy with emphasis on basic economic institutions and major forces in the process of growth and development.

Prerequisite: Economics 256.

399. Summer Study in Ireland. (0-0-9) Su.

Independent study in economics. Six weeks of residence in the Republic of Ireland will be required.

Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Comparative Economic Systems. (4-0-4) W.**

A comparative study of the origin, organization, operation, and achievements of the systems of capitalism, socialism, communism, and fascism.

Prerequisite: Economics 256 or permission of the instructor.

454. History of Economic Thought. (4-0-4) F.

The ancient world; scholasticism, mercantilism; the physiocrats; Adam Smith and classical economics; Marx; Veblen; Keynes.

Prerequisite: Economics 256.

460. Intermediate Economic Analysis. (4-0-4) F.

An analysis of commodity and factor price theory under alternative market classifications.

Prerequisite: Economics 256.

461. Statistics and Research Techniques in the Behavioral Sciences. (4-0-4) S.

Programmed as Social Science 461.

462. Economic Stability and Growth. (4-0-4) W.

An analysis of factors affecting national economic activity including detailed analysis of consumption, investment, growth, and inflation.

Prerequisite: Economics 256.

463. Mathematical Economics. (4-0-4) W.

The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework.

Prerequisites: Mathematics 135 and Economics 460, or permission of the instructor.

465. Economics of Underdeveloped Areas. (4-0-4) F.

An analysis of the economic structures of the underdeveloped areas and the alternative policies open to them for development.

Prerequisite: Economics 256 or permission of the instructor.

467. International Economic Problems. (4-0-4) S.

Current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism.

Prerequisite: Economics 320 or permission of the instructor.

468. Economic Planning. (4-0-4) S.

A study of development planning by public authorities in market economies as well as command economies.

Prerequisite: Economics 465 and/or permission of the instructor.

470. Business Cycles. (4-0-4) S.

Fluctuations in economic activity and their causes, methods of forecasting, and policy for control.

Prerequisite: Economics 256.

475. Government and Labor. (4-0-4) S.

Federal and state laws dealing with collective bargaining, strikes, and internal affairs of labor unions are examined in detail.

Prerequisite: Economics 357 or permission of the instructor.

477. Economics of Collective Bargaining. (4-0-4) W.

The subjects of collective bargaining and the resolution of conflict are studied on the theoretical and descriptive levels.

Prerequisite: Economics 357 or permission of the instructor.

480. Money and Banking. (4-0-4) Su, W.

Money and banking in the modern economy; history and theory of monetary policy.

Prerequisite: Economics 256 or the equivalent.

485. Public Finance. (4-0-4) Su, W.

A study of taxation, government spending, public debt, and their importance to economic welfare.

Prerequisite: Economics 256 or permission of the instructor.

490. Latin American Economic Development. (4-0-4) S.

Economic conditions and development problems in various Latin American countries.

Prerequisite: Economics 256 or permission of the instructor.

495. Independent Study. (Arr.-Arr.-4)

Independent study in economics. Designed for the individual student needs at either the undergraduate or graduate level.

Prerequisite: Economics 256.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Seminar in International Economics. (4-0-4) Su, W.

A study of the pure theory of international trade and finance.

Prerequisite: Economics 320 and/or permission of the instructor.

550. The Soviet Economy. (4-0-4) Su, S.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Seminar in Public Control of Industry. (4-0-4) F, S.

Selected problems of economic policy arising from the inter-relations of government and business with emphasis on maintaining competitive enterprise.

Prerequisite: Economics 356 and/or permission of the instructor.

557. Problems in Labor Economics. (4-0-4) F.

The theory of wages and employment; the application of the theory to contemporary problems.

Prerequisite: Economics 357 and/or permission of the instructor.

558. Economics of Manpower Resources. (4-0-4) W.

Recent developments in the areas of labor market research and manpower training and utilization.

Prerequisite: Economics 357 and/or permission of the instructor.

560. Advanced Economic Theory: Microeconomics. (4-0-4) W.

A development of value and distribution theories. Detailed analysis of the reactions of consuming units and producing units.

Prerequisite: Economics 460 and/or permission of the instructor.

562. Advanced Economic Analysis: Macroeconomic Theory. (4-0-4) S.

An in depth study of national income analysis; incorporating pre-Keynesian, Keynesian, and post-Keynesian economic theory.

Prerequisite: Economics 462 and/or permission of the instructor.

564. Seminar in Recent History of Economic Thought. (4-0-4) Su, W.

A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1930.

Prerequisite: Economics 454 and/or permission of the instructor.

565. Seminar in Economic Development. (4-0-4) S.

A theoretical, historical, and statistical treatment of economic development.

Prerequisite: Economics 465 and/or permission of the instructor.

580. Seminar in Monetary Theory. (4-0-4) Su, F.

Topics relating to the quantity theory of money, the supply of and demand for money, the functioning of monetary and credit controls.

Prerequisite: Economics 480 or the equivalent.

581. Seminar in Financial Institutions. (4-0-4) S.

The functioning of major private and public financial institutions.

Prerequisite: Economics 480 or the equivalent.

585. Seminar in Public Finance. (4-0-4) F.

A study of the relationship between the public sector and the rest of the economy.

Prerequisite: Economics 485 and/or permission of the instructor.

595. Thesis. (Arr.-Arr.-4)

ENGLISH

Note: A student who enters the University with a deficiency in the basic skills in English—reading, writing, spelling, elements of grammar and good usage—may be required to take work in remedial English in addition to the required freshman composition courses.

Note on prerequisites for courses in English: Students may not enroll in English courses numbered above 130 until they have completed English 130, or, in the case of transfer students, until they have satisfied the all-university English requirement.

Note: Courses in English are grouped for curriculum selection as follows (and the Groups are further indicated by Roman numerals at the end of the course description):

- I. Language: 126, 226, 364
- II. Composition and Literary Criticism: 224, 315, 316, 317, 355, 356
- III. World Literature: 215, 275, 325, 361, 362, 363, 396
- IV. Medieval Period: 245, 465, 480, 481
- V. Renaissance: 336, 337, 338, 362, 453, 470, 490
- VI. 17th and 18th Centuries: 246, 453, 455, 456, 470, 475
- VII. 19th Century: 247, 251, 260, 261, 262, 363, 379, 454, 457, 471, 472
- VIII. 20th Century: 247, 252, 263, 270, 363, 370, 380, 381, 382
- IX. Fiction and Essay: 260, 261, 262, 263, 359, 360, 453, 455, 456, 457
- X. Poetry: 299, 310, 311, 336, 337, 338, 379, 470, 471, 472, 475, 480, 481
- XI. Drama: 270, 325, 336, 337, 338, 380, 381, 382, 490
- XII. American Literature: 250, 251, 252, 262, 310, 333, 360, 379, 398, 454

UNDERGRADUATE COURSES

120. Composition. (3-1-4)

A basic course in theme writing, designed to develop facility in matters of sentence structure, paragraph development, and organization.

126. Grammar. (4-0-4)

A study of the English sentence. Primarily for those preparing to teach English, but open to any student. (I)

130. The Types of Literature. (4-0-4)

An introduction to the major genres (poetry, fiction, drama). Frequent analytical papers required.

Prerequisite: English 120.

Note: English 130 does not count toward fulfilling the humanities general requirement for any degree.

201. Advanced Reading and Writing. (3-1-4)

The structural problems of writing longer essays, with critical approaches to literature. A research paper required.

Prerequisite: Sophomore standing.

215. Mythology. (4-0-4) Su, F.

The myths, chiefly Greek and Roman, most often retold, interpreted, or alluded to by the writers of Western Europe and America. (III)

224. Introduction to Creative Writing. (4-0-4) F.

Practice in writing poems, short stories, or plays. Intensive criticism in class of the students' writing. (II)

Prerequisite: English 201 or its equivalent.

226. The Structure of the English Language: Phonology and Orthography. (4-0-4)

Phonetics and phonemics of English; dialectology; the spelling system English. (I)

245. English Literature I. (4-0-4) Su, F, W.

Prose and poetry (including drama) from *Beowulf* to Bunyan. (IV)

246. English Literature II. (4-0-4)

Prose and poetry (including drama) from Dryden to DeQuincey. (VI)

247. English Literature III. (4-0-4) Su, W, S.

Prose and poetry (including drama) from Macaulay to the present. (VII, VIII)

250. American Literature I. (4-0-4)

From Colonial times through the Transcendental Movement, with emphasis usually on Edward Taylor, Hawthorne, Poe, Emerson, Thoreau. (XII)

251. American Literature II. (4-0-4)

From the close of the Transcendental Movement to 1900, with emphasis usually on Melville, Whitman, Dickinson, Mark Twain, James. (VII, XII)

252. American Literature III. (4-0-4)

From 1900 to the present, with emphasis usually on Robinson, Frost, Eliot, Faulkner, Hemingway. (VIII, XII)

260. English Novel from 1800 to 1850. (4-0-4) F.

Austen, Thackeray, Dickens, the Brontës, and others. (VII, IX)

261. English Novel from 1850 to 1900. (4-0-4) Su, W.

George Eliot, Hardy, Meredith, Stevenson, Wilkie Collins, and others. (VII, IX)

262. The American Novel to 1900. (4-0-4) W.

Hawthorne, Melville, Mark Twain, James, and others. (VII, IX, XII)

263. The Twentieth Century Novel: English and American. (4-0-4) Su, S.

Joyce, Dreiser, Fitzgerald, Hemingway, Steinbeck, Lawrence, and others. (VIII, IX)

270. Modern Drama. (4-0-4) S.

From Ibsen to the present. (VIII, XI)

275. Literature of the Old Testament. (4-0-4) (Omitted 1970-71.)

Types of literature in the Old Testament. (III)

299. Prosody. (4-0-4) W.

The nature and function of poetic rhythm; the history of poetic rhythm and prosodical theory. (X)

310. Studies in Major American Poets. (4-0-4) Su, F, S.

Studies in depth, with only one or two poets examined during any one quarter. (X, XII)

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

311. Studies in Major British Poets. (4-0-4) W.

Studies in depth, with only one or two poets examined during any one quarter. (X)

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

315. Literary Criticism, Aristotle to Johnson. (4-0-4) Su, F.

Selections from the critical writings of Aristotle, Plato, Horace, Longinus, Sidney, Daniel, Jonson, Corneille, Milton, Dryden, Pope, Johnson. (II)

316. Literary Criticism of the Nineteenth Century. (4-0-4) W.

Selections from the critical writings of Hazlitt, Wordsworth, Coleridge, Keats, Shelley, Poe, Arnold, Pater, and Wilde. (II)

317. Modern Literary Criticism (4-0-4) S.

Selections from the critical writings of Henry James, T. S. Eliot, Ransom, Mencken, Bergson, Richards, Croce, Empson, Reed, and Rilke. (II)

322. Literature in the Grades. (4-0-4) F, W, S.

Emphasizes wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry for children. (No Group)

Enrollement restricted to students in the elementary curriculum.

325. Greek Drama. (4-0-4) (Omitted 1970-71.)

Aeschylus, Sophocles, Euripides, Aristophanes. (III, XI)

333. Colonial American Literature. (4-0-4) F, S.

From the beginning through the Revolutionary period. (XII)

336. Shakespeare. (4-0-4) Su, F.

The earlier plays, such as *Richard II*, *Romeo and Juliet*, *Julius Caesar*, *Merchant of Venice*, and one later play, *Othello*. (V, X, XI)

337. Shakespeare. (4-0-4) W.

I Henry IV, *II Henry IV*, *Henry V*, *As you Like It*, *Measure for Measure*, *Hamlet*, *Macbeth*, and *The Winter's Tale*. (V, X, XI)

338. Shakespeare. (4-0-4) S.

Twelfth Night, Troilus and Cressida, King Lear, Antony and Cleopatra, Coriolanus, Cymbeline, The Tempest. (V, X, XI)

340. Methods of Teaching English in the High School. (4-0-4)

Problems, materials, and methods for teaching English in the high school. (No Group)

Prerequisite: Education 333.

355. Advanced Rhetoric. (4-0-4) W.

Advanced application of the principles of organization and effective expression studied in English 201. (II)

Prerequisite: English 201 or its equivalent.

356. Advanced Creative Writing. (4-0-4) Su, S.

Experience in writing poems, short stories, plays. (II)

Prerequisite: English 224 or permission of the instructor.

359. Studies in Major British Novelists. (4-0-4) F, S.

Studies in depth, with only one or two novelists examined during any one quarter. (IX)

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

360. Studies in Major American Novelists. (4-0-4) Su, W.

Studies in depth, with only one or two novelists examined during any one quarter. (IX, XII)

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

361. World Literature: Ancient and Medieval. (4-0-4) F.

Reading in translation of representative masterpieces of the ancient world and of the middle ages. (III)

English 361 is not a prerequisite for English 362 or 363, but it is recommended that the courses be taken in sequence.

362. World Literature: Renaissance to 1850. (4-0-4) W.

Emphasis on generally recognized masters, Rabelais, Montaigne, Shakespeare, Goethe, Moliere, Racine, Cervantes, and others. (III, V)

363. World Literature: Since 1850. (4-0-4) Su, S.

The masterpieces of realism, naturalism, symbolism: Flaubert, Dostoevsky, Tolstoy, Ibsen, Mann, Proust, Faulkner, and others. (III, VII, VIII)

364. Introduction to the General Nature of Language and of English. (4-0-4) (Omitted 1970-71.)

Theories of the nature of language; modern American English in its cultural setting. Concentration topics, e.g., psycho-linguistics, chosen by instructor. (I)

Prerequisite: English 226.

370. Twentieth Century British Literature. (4-0-4) W.

Representative works (exclusive of the novel), with primary attention to such figures as Conrad, Eliot, Joyce, Lawrence, Yeats. (VIII)

379. Nineteenth Century American Poetry. (4-0-4) S.

Major trends and various genres in nineteenth-century American poetry. (VII, X, XII)

380. Theory and Practice of Modern Drama I. (2-4-4) F.

Ibsen, Shaw, Chekhov, and Strindberg. Taught jointly by the Departments of English and Theatre Arts. Literary analysis, acting, and directing. (VIII, XI)

381. Theory and Practice of Modern Drama II. (2-4-4) W.

The best of O'Neill, Tennessee Williams, Arthur Miller, and Thornton Wilder. (VIII, XI)

382. Theory and Practice of Modern Drama III. (2-4-4) S.

The "Absurdist"—Beckett, Ionesco, Albee, Pinter, Genet. (VIII, XI)

396. Special Studies in Comparative Literature. (4-0-4) Su, F.

Special topics not ordinarily covered by standard courses. Topics will vary from quarter to quarter. (III)

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

397. Special Studies in British Literature. (4-0-4) W.

Special topics not ordinarily covered by standard courses. Topics will vary from quarter to quarter. (Group varies)

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

398. Special Studies in American Literature. (4-0-4) S.

Special topics not ordinarily covered by standard courses. Topics will vary from quarter to quarter. (XII)

With permission of the department head and approval of the Dean, College of Letters and Science, this course may be taken more than once.

399. Summer Study in Ireland. (0-0-9) Su.

Independent research in English. Six weeks of residence in the Republic of Ireland will be required. (Group varies)

Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Sixteenth and Seventeenth Century Prose. (4-0-4) Su.**

Such English authors as Lyly, Sidney, Bacon, Bunyan, and Milton;

the times that influenced their prose. (V, VI, IX)

454. The Transcendental Movement. (4-0-4) Su.

The New England Transcendental movement, with emphasis on Emerson and Thoreau. (VII, XII)

455. The Age of Swift. (4-0-4) F.

The prose and poetry of the British neo-classical period centered around Jonathan Swift. (VI, IX)

456. The Age of Johnson. (4-0-4) (Omitted 1970-71.)

Major eighteenth-century British authors during the times of Samuel Johnson. (VI, IX)

457. Nineteenth Century English Prose. (4-0-4) W.

The prose (exclusive of fiction) of Arnold, Carlyle, Coleridge, Hazlitt, Huxley, Lamb, Mill, Pater, Ruskin, and others. (VII, IX)

459. Methods of Teaching Children's Literature. (4-0-4) Su, S.

For elementary and English majors, designed to increase their knowledge of children's literature and to suggest methods for teaching literature in grades one through six. (No Group)

465. Middle English Literature. (4-0-4) (Omitted 1970-71.)

Representative genres of non-Chaucerian English literature of the Middle Ages, in translation. (IV)

470. English Poetry. (4-0-4) F.

From 1550 to 1700, exclusive of Milton. (V, VI, X)

471. Poetry of the Romantic Period. (4-0-4) Su, W.

Precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats. (VII, X)

472. Poetry of the Victorian Period. (4-0-4) S.

Tennyson, Browning, and others. (VII, X)

475. Milton. (4-0-4) (Omitted 1970-71.)

The life, prose, and poetry of John Milton, and his relationship to the literary trends of his century. (VI, X)

480. Chaucer. (4-0-4) W.

Canterbury Tales; the London dialect out of which modern English grew; the life of the times. (IV, X)

481. Chaucer. (4-0-4) S.

Troilus and Criseyde and such other works as *The House of Fame*, *The Parliament of Fowls*, and *The Legend of Good Women*. (IV, X)

490. Elizabethan Drama. (4-0-4) F.

English drama of the Renaissance to 1603, including selected plays of Shakespeare. (V, XI)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Literary Criticism. (4-0-4) F.

The basic principles and theories for evaluating the standard literary forms—epic, drama, lyric, and prose narrative.

510. Studies in Medieval Literature. (4-0-4) Su, W.

Representative non-Chaucerian literature of the English Middle Ages, with emphasis varying from genres to figures.

520. Studies in Renaissance Poetry. (4-0-4) (Omitted 1970-71.)

A single British poet or group of poets, in relation to the dominant ideals and attitudes of the Renaissance.

525. Studies in Jacobean and Caroline Drama. (4-0-4) W.

Major British dramatists, including some reference to Shakespeare, from 1603 to the closing of the theaters in 1642.

526. Studies in Restoration and Eighteenth Century Drama. (4-0-4) Su.

Major British dramatists from 1660 to Sheridan.

535. English Fiction, from Jane Austen to Thomas Hardy. (4-0-4) Su.

The novel in England with emphasis on one or two different novelists each quarter.

540. Studies in American Poetry. (4-0-4) Su, F.

Analysis of a movement or genre in American poetry, varying from quarter to quarter.

541. Studies in American Prose. (4-0-4) S.

Analysis of a movement in American prose, varying from quarter to quarter.

545. Descriptive Linguistics. (4-0-4) (Omitted 1970-71.)

Descriptive linguistics from the 1930's to the present, with training in structural, transformational, and other grammars.

560. Old English. (4-0-4) (Omitted 1970-71.)

Old English grammar and selected readings from the literature.

561. Beowulf. (4-0-4) (Omitted 1970-71.)

The Old English classic in the original language.

Prerequisite: English 560 or the permission of the instructor.

565. Studies in Chaucer. (4-0-4) F.

Selected works of Chaucer and, occasionally, of his contemporaries.

575. Studies in Shakespeare. (4-0-4) S.

Topics will vary from quarter to quarter.

577. Studies in Seventeenth Century Prose and Poetry. (4-0-4) F.

Single or related British authors from Donne to Dryden, excluding Milton and the drama.

579. Studies in Eighteenth Century Prose and Poetry. (4-0-4) Su.

Topics will vary from quarter to quarter.

582. Studies in Romantic Poetry. (4-0-4) S.

Intensive study of one British poet, varying each quarter, against the background of Romanticism.

585. Studies in Later Nineteenth Century Prose and Poetry. (4-0-4) W.

Emphasis more frequently on themes than on figures or genres, with occasional reference to American or European counterparts.

590. Colonial American Literature. (4-0-4) (Omitted 1970-71.)

Pre-revolutionary literature, with special attention to the seventeenth-century New England Puritans.

592. Studies in Twentieth Century Fiction (4-0-4) Su, S.

One or two writers, British and American, varying from quarter to quarter.

594. Studies in Twentieth Century Poetry. (4-0-4) W.

One or two poets, British and American, varying from quarter to quarter.

595. Thesis. (0-0-4 or 8)

FOREIGN LANGUAGES

Intermediate and upper division modern language courses are conducted in the language.

Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I	II	III
Number of high school units in the language.	Course in (or beyond) which the student may enroll for college credit.	Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
1 year	The student will take a placement examination given by the Foreign Language Department which will determine the course which he may enter for credit.	
2 years	French 132	French 230
	German 132	German 233
	Latin 122	Latin 220
	Russian 142	Russian 250
	Spanish 132	Spanish 230
3 years	French 230	French 231
	German 233	German 234
	Latin 220	Latin 221
	Russian 250	Russian 251
	Spanish 230	Spanish 231
4 years	French 232	a course numbered above 300
	German 235	
	Latin 222	
	Russian 252	
	Spanish 232	

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

The following courses are approved to apply toward the literature portion of the humanities requirement:

French 350, 351, 352, 410, 411, 412, 456, 457, 458, 510, 511, 512

German 353, 355, 362, 363, 411, 412, 453, 454, 511, 512

Russian 360, 361, 363

Spanish 321, 322, 323, 325, 326, 411, 456, 457, 458, 510, 511, 512

Note: A student wishing to count foreign language as a humanities

requirement must complete the third course of the first year's sequence in order to use the credit toward meeting that requirement. A student may take the first or second course of the three-course sequence in the first year of a foreign language and receive elective credit toward graduation. This applies to:

French 130, 131, 132
 German 130, 131, 132
 Latin 120, 121, 122
 Russian 140, 141, 142
 Spanish 130, 131, 132

FRENCH

UNDERGRADUATE COURSES

130, 131, 132. **Elementary French.** (4-0-4 each course) 131-Su, W, S; 132-Su, F, S.

Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; reading of simple French texts; conversation.

230, 231, 232. **Second Year French.** (4-0-4 each course) 230-Su, F, W; 231-Su, W, S; 232-F, S.

Review of grammar; exercises in composition; conversation; readings.

Prerequisite: Two years of high-school French or one year of college French.

330. **Applied Linguistics.** (4-0-4) F.

Application of principles of linguistic analysis to modern French. Systematic drills are used to build the student's knowledge of the structure of French and to eliminate errors caused by the patterns of the student's native English.

Prerequisite: Two years of college French or permission of the department.

331. **French Grammar and Composition.** (4-0-4) W.

Review and consolidation of principles of grammar; their application in writing, language drills, translations, compositions.

Prerequisite: Two years of college French or permission of the department.

332. **Aspects of French Civilization.** (4-0-4) S.

A study of some of the outstanding moments and figures in the history of French culture and civilization.

Prerequisite: Two years of college French or permission of the department.

340. **Methods of Teaching French.** (4-0-4) W.

Prerequisite: Admission to teacher education and junior standing.

341. **Methods of Teaching French.** (2-0-2) S.

A course designed for French minors.

Prerequisite: Admission to teacher education.

350. Survey of French Literature from the Middle Ages to the Seventeenth Century. (4-0-4) F.

Prerequisite: Two years of college French or permission of the department.

351. Survey of French Literature of the Seventeenth Century. (4-0-4) W.

Prerequisite: Two years of college French or permission of the department.

352. Survey of French Literature of the Eighteenth and Ninetenth Centuries. (4-0-4) S.

Prerequisite: Two years of college French or permission of the department.

410. Introduction to the French Novel I. (4-0-4) (Omitted 1970-71.)

A study of selected novels of Mme. de LaFayette, Prévost, Constant, George Sand.

Prerequisite: French 350, 351, 352 or permission of the department.

411. Introduction to the French Novel II. (4-0-4) (Omitted 1970-71.)

A study of selected novels of Victor Hugo, Balzac, Stendhal, Flaubert.

Prerequisite: French 350, 351, 352 or permission of the department.

412. Introduction to the French Novel III. (4-0-4) (Omitted 1970-71.)

A study of selected novels of Zola, Proust, Gide, Camus.

Prerequisite: French 350, 351, 352 or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

456. French Drama of the Seventeenth Century. (4-0-4) F.

457. French Drama of the Eighteenth and Nineteenth Centuries. (4-0-4) W.

458. French Poetry. (4-0-4) S.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. French Novel I: Before Balzac. (4-0-4) F.

A study of selected novels of Mme. de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.

511. French Novel II: Balzac to Proust. (4-0-4) W.

A study of selected novels of Balzac, Stendhal, Flaubert and Zola.

512. French Novel III: Proust to the Present. (4-0-4) S.

A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.

515. Advanced Phonetics and Diction. (4-0-4) S.

Theory and practice.

516. Syntax and Stylistics. (4-0-4) Su, W.

A study of French syntax and stylistics; intensive practice in writing.

517. Contemporary French Civilization. (4-0-4) Su.

A study of the contemporary scene in France.

560. Classroom and Laboratory Techniques for Teaching French. (4-0-4) (Omitted 1970-71.)

Particularly for students preparing for junior college or college teaching; adaptable to experienced teachers at other levels.

565. French Literature of the Renaissance. (4-0-4) F.

Rabelais, DuBellay and the doctrine of the Pleiade, Ronsard and Montaigne.

567. French Classicism I. (4-0-4) (Omitted 1970-71.)

Representative authors of the first half of the Seventeenth Century.

568. French Classicism II. (4-0-4) (Omitted 1970-71.)

Representative authors of the second half of the Seventeenth Century.

575. The Age of Enlightenment. (4-0-4) (Omitted 1970-71.)

Chosen authors of the Eighteenth Century.

578. French Realism and Naturalism. (4-0-4) (Omitted 1970-71.)

Representative works of the French realists and naturalists of the Nineteenth Century.

580. Contemporary French Literature. (4-0-4) (Omitted 1970-71.)

Contemporary authors such as Sartre, Anouilh, Beckett, and Robbe-Grillet.

585. Seminar in French Literature. (4-0-4) Su.

Work and discussion of various topics chosen according to students' needs.

595. Thesis. (arr.-Arr.-4)

GERMAN

UNDERGRADUATE COURSES

130, 131, 132. Elementary German. (4-0-4 each course)

Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.

233, 234, 235. Second Year German. (4-0-4 each course) 233-Su, F, W; 234-Su, W, S; 235-F, S.

Rapid review of grammar; practice and vocabulary-building exercises in conversation, and regular exercises in composition; intensive reading of selected short stories and novels.

Prerequisite: German 132 or two years of high school German.

340. Methods of Teaching German. (4-0-4) W.

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching German. (2-0-2) S.

A course designed for German minors.

Prerequisite: Admission to teacher education.

353. Masterpieces of German Literature. (4-0-4) (Omitted 1970-71.)

Introduction to German Literature, its themes, forms, and ideals.

Prerequisite: German 235 or permission of the department.

354. Conversation and Writing. (4-0-4) W.

Training in writing German, diction and pronunciation.

Prerequisite: German 235 or permission of the department.

355. Twentieth Century German Literature. (4-0-4) S.

Introduction to trends of modern civilization as reflected in contemporary German Literature: Hofmannsthal, Rilke, Trakl, Hauptmann.

Prerequisite: German 235 or permission of the department.

361. Applied Linguistics. (4-0-4) (Omitted 1970-71.)

Application of the findings of descriptive linguistics to the study and the teaching of German; the results of linguistic analysis and their practical significance both to the student of that language and to the teacher.

Prerequisite: German 235 or permission of the department.

362. Schiller's Dramas. (4-0-4) (Omitted 1970-71.)

A study of the development of German classicism as embodied in Schiller's dramas; the theory, structure and dramaturgy of the classical drama in Germany.

Prerequisite: German 235 or permission of the department.

363. Lyrics and Ballads. (4-0-4) F.

A poetical and metrical survey of German lyrical verse from its beginning to modern times, with critical analysis of representative poems.

Prerequisite: German 235 or permission of the department.

410. Contemporary German Culture and Civilization. (4-0-4) F.

A systematic study of present day Germany, Austria, and Switzerland.

Prerequisite: Three years of college German or permission of the department.

411. German Drama. (4-0-4) W.

A study of the outstanding German dramas until 1800.

Prerequisite: Three years of college German or permission of the department.

412. Introduction to Goethe. (4-0-4) S.

A study of Goethe from his earliest literary pursuit to 1806.

Prerequisite: Three years of college German or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. German Literature to 1700. (4-0-4) (Omitted 1970-71.)**

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

454. German Literature Since 1700. (4-0-4) (Omitted 1970-71.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

455. Advanced Composition and Syntax. (4-0-4) (Omitted 1970-71.)

Advanced training in writing and speaking German for improvement in grammar, syntax and style; essays and discussions will be drawn from various aspects of German literature.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. History of German Civilization. (4-0-4) Su.

Analysis of selected topics from German culture and civilization.

511. Modern German Drama. (4-0-4) (Omitted 1970-71.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

512. Goethe. (4-0-4) S.**572. German Lyric Poetry from 1880 to the Present. (4-0-4) F.**

Discussion and lectures on the development of modern concepts in the genre as reflected in the works of George, Rilke, Trakl, and others.

574. The German Drama of the Nineteenth Century. (4-0-4) W.

A study of the background and development of the theater in Germany. Reading and discussion of the works of Buchner, Kleist, Hebbel, Hauptmann, and others.

580. Seminar in German Literature. (4-0-4) Su.

The study and discussion of various topics as chosen according to need.

Prerequisite: 16 quarter hours of 500 level courses or permission of the department head.

595. Thesis (Arr.-Arr.-4)

LATIN

UNDERGRADUATE COURSES

120, 121, 122. Elementary Latin. (4-0-4 each course) 120-Su, F. 121-Su, W. 122-Su, F, S.

The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English.

220. Introductory Latin Reading. (4-0-4) F, W.

Selection from Aulus Gellius, Phaedrus, and Caesar.

Prerequisite: Latin 122, or two years of Latin in high school.

221. Vergil's Aeneid. (4-0-4) W, S.

Selections from Book I to VI. Greek and Roman mythology; scansion; sight translation; life of Vergil.

Prerequisite: Latin 220 or permission of the department.

222. Orations of Cicero. (4-0-4) S.

Readings from the four orations against Catiline. Cicero's career and the political background of the conspiracy of Catiline are discussed.

Prerequisite: Latin 221 or permission of the department.

320. A Survey of Classical Roman Literature, Part I. (4-0-4) F.

Chronological selections illustrative of Latin literature in the period of the Republic.

Prerequisite: Two years of college Latin or permission of the department.

321. A Survey of Classical Roman Literature, Part II. (4-0-4) W.

Chronological selections illustrative of Latin literature in the period of the Empire.

Prerequisite: Two years of college Latin or permission of the department.

322. Selected Letters. (4-0-4) S.

Readings from the correspondence of Cicero and Pliny.

Prerequisite: Two years of college Latin or permission of the department.

330. Cicero's Essays, Selections from De Amicitia and De Senectute. (4-0-4) (Omitted 1970-71.)

Prerequisite: Two years of college Latin or permission of the department.

331. Horace, Selections from the Odes, Satires, and Epistles. (4-0-4) (Omitted 1970-71.)

Prerequisite: Two years of college Latin or permission of the department.

332. **Livy, Selections from Books I, XXI, XXII. (4-0-4) (Omitted 1970-71.)**

Prerequisite: Two years of college Latin or permission of the department.

340. **Methods of Teaching Latin. (4-0-4) W.**

Prerequisite: Admission to teacher education and junior standing.

341. **Methods of Teaching Latin. (2-0-2) S.**

A course designed for Latin minors.

Prerequisite: Admission to teacher education.

433. **Ovid, Selections from Tristia, Heroides, Amores, Fasti, Metamorphoses. (4-0-4) F.**

The life and times of Ovid; Roman and Greek mythology.

Prerequisite: Three years of college Latin or permission of the department.

434. **Latin Composition. (4-0-4) W.**

Provides the Latin student with extensive training and practice in expressing himself in idiomatic classical Latin.

Prerequisite: Three years of college Latin or permission of the department.

435. **Medieval Latin. (4-0-4) S.**

Readings in the history, poetry and philosophy of the Middle Ages. Special attention is given to the comparative philology of Latin and the Romance languages.

Prerequisite: Three years of college Latin or permission of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Tacitus, Germania and Agricola; Selections from Annals and Histories. (4-0-4) (Omitted 1970-71.)**451. **Selections from Catullus and Martial. (4-0-4) (Omitted 1970-71.)**452. **Roman Comedy. The Menaechmi and Captives of Plautus; The Phormio and Andria of Terence. (4-0-4) (Omitted 1970-71.)**

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. **Suetonius: The Life of Augustus Caesar. (4-0-4) (Omitted 1970-71.)**

Translation of a primary historical document pertaining to the rise of the Roman Empire; critical evaluation of Suetonius as a biographer and historian.

511. **Petronius, Cena Trimalchionis and Seneca, Apocolotyntosis. (4-0-4) F.**

Examples of Roman satire in the first century A.D.; introduction to the picaresque novel.

512. Apuleius, The Story of Cupid and Psyche. (4-0-4) (Omitted 1970-71.)

Translation of a major excerpt from Apuleius' *Metamorphosis*; introduction to the Eastern cults prevalent in Rome.

595. Thesis. (Arr.-Arr.-4)**RUSSIAN****UNDERGRADUATE COURSES****140, 141, 142. Elementary Russian. (4-0-4 each course) 140-Su, F; 141-Su, W; 142-Su, S.**

Pronunciation; basic grammar; written and oral exercises; reading of simple Russian prose.

250, 251, 252. Second Year Russian. (4-0-4 for each course) 250-F; 251-W; 252-S.

Study of grammar continued; written and oral exercises; reading of moderately difficult Russian prose.

Prerequisite: Russian 142 or 2 years of high school Russian.

340. Methods of Teaching Russian. (4-0-4) W.

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Russian. (2-0-2) S.

A course designed for Russian minors.

Prerequisite: Admission to teacher education.

350. Applied Linguistics. (4-0-4) F.**351. Conversation and Writing. (4-0-4) (Omitted 1970-71)****352. Aspects of Russian Civilization. (4-0-4) (Omitted 1970-71.)****360. Modern Russian Authors. (4-0-4) (Omitted 1970-71.)**

Reading of short selections from a wide range of authors such as Pushkin, Tolstoy, Dostoyevsky, Turgenev, Saltykov-Shchedrin, Lermontov, Gogol, Chekhov, Gorky, Sholokhov, and Simonov.

Prerequisite: Two years of college Russian or permission of the department.

361. Masterpieces of Russian Literature. The Russian Novel in the Nineteenth Century. (4-0-4) W.

Reading of selected chapters from *War and Peace*, *Anna Karenina*, *Brothers Karamazov*, *Crime and Punishment*, *Dead Souls*, and *Fathers and Sons*.

Prerequisite: Two years of college Russian or permission of the department.

363. Chekhov and Other Russian Dramatists. (4-0-4) S.

The Three Sisters and *The Cherry Orchard* by Chekhov. *The Lower*

Depths by Gorky, and one play of the Soviet period will be read in their entirety.

Prerequisite: Two years of college Russian or permission of the department.

SPANISH

UNDERGRADUATE COURSES

130, 131, 132. Elementary Spanish. (4-0-4 each course) 130-F, W; 131-W, S; 132-Su, F, S.

Emphasis on conversation, grammar, reading; incorporation of cultural, geographical, and historical information; extensive use of audio-visual aids.

230, 231, 232. Second Year Spanish. (4-0-4 each course) 230-Su, F, W; 231-Su, W, S; 232-Su, F, S.

The first month of Spanish 230 is devoted to a review of the elements of the language. Several comedies and stories are read. Conversation in Spanish; films used to acquaint students with the history and culture of Spanish speaking countries.

Prerequisite: Two years of Spanish in high school or one year in college.

321. Introduction to Spanish Literature, Twelfth to Fifteenth Centuries. (4-0-4) F.

Study of development of medieval Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

322. Introduction to Spanish Literature, Sixteenth to Seventeenth Centuries. (4-0-4) W.

Study of development of Renaissance and Golden Age Spanish literature.

Prerequisite: Two years of college Spanish or permission of the department.

323. Introduction to Spanish Literature, Eighteenth to Twentieth Centuries. (4-0-4) S.

Prerequisite: Two years of college Spanish or permission of the department.

325. Introduction to Spanish American Literature, I. (4-0-4) F.

A study of the development of Spanish American literature from the Colonial period to 1886.

Prerequisite: Two years of college Spanish or the equivalent.

326. Introduction to Spanish American Literature, II. (4-0-4) W.

A study of the development of Spanish American literature from 1886 to present.

Prerequisite: Two years of college Spanish or the equivalent.

327. Spanish Composition and Conversation. (4-0-4)

Intermediate level course continuing the skills of speaking and writing

developed in the second year. Guided conversation, grammar review, oral and written composition.

Prerequisite: Two years of college Spanish or permission of the department.

340. Methods of Teaching Spanish. (4-0-4) W.

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Spanish. (2-0-2) S.

A course designed for Spanish minors.

Prerequisite: Admission to teacher education.

410. Advanced Composition and Phonetics. (4-0-4) F.

A study of fundamental aspects of spoken and written Spanish. Frequent oral and written reports required.

Prerequisite: Three years of college Spanish or permission of the department.

411. Modern Short Stories of Spain. (4-0-4) W.

Reading of Spanish short stories from latter part of the Nineteenth Century to present. Analysis and oral discussions in Spanish.

Prerequisite: Three years of college Spanish or permission of the department.

415. The Hispanic World. (4-0-4) S.

A study of contemporary civilization in the Hispanic world against a view of the history of the Spanish Peninsula from ancient times and of Spanish America from its discovery.

Prerequisite: Three years of college Spanish or the equivalent.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

456. The Short Story in Spanish America. (4-0-4) (Omitted 1970-71.)

A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors.

457. Modern Poetry of Spanish America. (4-0-4) (Omitted 1970-71.)

A study of the poetry of Spanish America, from the *modernista* movement to the present.

458. Modern Novel of Spanish America. (4-0-4) (Omitted 1970-71.)

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Poetry of Spain. (4-0-4) F.

Readings and analysis of Spanish poetry from Fifteenth Century to present.

511. Selected Modern Drama of Spain. (4-0-4) W.

Reading of complete modern dramas of Spain from second half of the Nineteenth Century to present, with emphasis in current developments in Spanish theater. Discussions in Spanish.

512. Modern Novels of Spain. (4-0-4) S.

Reading of complete novels of Spain from latter part of the Nineteenth Century to present.

530. Spanish Bibliography. (4-0-4) Su.

Methods of location and acquisition of material available for research projects in the Hispanic field.

555. History of the Spanish Language. (4-0-4) (Omitted 1970-71.)

Study of the development of the language from Vulgar Latin to Modern Spanish.

560. Classroom and Laboratory Techniques for College Spanish. (4-0-4) Su.

A course particularly relevant to students preparing to teach at the junior college or college level.

561. Cervantes. (4-0-4) F.

Study of the novel *Don Quijote de la Mancha* by Miguel de Cervantes Saavedra.

562. Theatre of the Golden Age. (4-0-4) (Omitted 1970-71.)

Study of the creation of Spanish National theater in the Golden Age and of selected works of the most prominent dramatists of the period.

564. Generation of 1898. (4-0-4) W.

Study of representative writers of the Generation of 1898.

570. Spanish American Drama. (4-0-4)S.

Study of Spanish American dramatic literature from its origin to the present.

571. Spanish American Poetry. (4-0-4) Su.

Study of major movements in Twentieth Century Spanish American poetry and their critical interpretation and analysis.

572. Spanish American Novel: Middle America. (4-0-4) S.

Study of the different movements and themes in the novels of Mexico, Central America and the Antilles, with particular emphasis on the novel after 1910.

573. Spanish American Novel: South America. (4-0-4) (Omitted 1970-71.)

Study of different themes and movements in South American novel, with particular emphasis on the Twentieth Century.

580. Seminar of Spanish Literature. (4-0-4) (Omitted 1970-71.)

Special topic and research course devoted to selected problems, genres, literary movements, and major writers in Spanish literature.

582. Seminar of Spanish American Literature. (4-0-4) (Omitted 1970-71.)

Special topic and research course devoted to selected problems, genres, literary movements, and major writers in the Spanish American literature.

595. Thesis. (Arr.-Arr.-4)**CLASSICS****GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Greek Literature in English Translation. (4-0-4) (Omitted 1970-71.)

A survey course devoted to the reading and discussion of the masterpieces of classical Greek literature from Homer to Demosthenes.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Latin Literature in English Translation. (4-0-4) (Omitted 1970-71.)

A survey course devoted to the reading and discussion of the masterpieces of classical Latin literature from Plautus to Suetonius.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

FRENCH

(See Foreign Languages)

GEOGRAPHY AND GEOLOGY**GEOGRAPHY****UNDERGRADUATE COURSES****141. Physical Geography. (2-4-4) F, W.**

Study of weather and climate, the factors which influence them, and their importance to man; recent developments in knowledge of weather presented.

142. Physical Geography. (2-4-4) S.

A study of the earth's surface, land forms, water resources, soils, vegetation, economic minerals, and their areal interrelationships. Field trip.

150. World Geography. (4-0-4)

Study of man on the earth, stressing significant areal differences in

population and the working bonds man has developed with the land and its resources.

151. Geography of North America. (4-0-4) F, W.

A basic introduction to topical and regional approaches in geography, with North America, especially the United States, the example.

Prerequisite: Geography 150 or 141 or 142. No credit if Geography 302 has been taken.

241. Climates of the World. (4-0-4) S.

Comparison of methods used in classifying climatic types. Relationships to vegetation, soil and land-use associations. Applications to industry, agriculture, and aviation.

Prerequisite: Geography 141 or permission of instructor.

242. Regional Land Forms. (2-4-4) W.

Land forms of the United States; work with maps of land forms; consideration of their composition, distribution, and the processes by which they were formed.

Prerequisite: Geography 142 or permission of instructor.

286. Soils of the World. (4-0-4) F.

A description and classification of the major soils of the world. An introduction to interrelationships of world soils with the environment.

Prerequisite: Four quarter hours of geography or permission of instructor.

300. Elementary Earth Science I. (4-0-4)

Phenomena of earth shape and motions, daylight, time, analyzed. Land forms, and earth resources introduced. Local field trip.

No credit if Geography 142 or Geology 140 has been taken.

301. Elementary Earth Science II. (4-0-4) W.

An analysis of the weather and climatic elements and controls and world climatic regions. Daily weather maps explored.

No credit if Geography 141 has been taken.

302. North America. (4-0-4) Su, W, S.

Man's occupancy of the continent of North America with topical and regional emphasis on the U.S.

Prerequisite: One course in geography. No credit if Geography 151 has been taken.

340. Methods and Materials. (4-0-4) F.

The nature of the discipline and its place in the school curriculum. Tests, reference materials, visual and other aids, and classroom procedures.

Prerequisite: Admission to teacher education and junior standing.

351. Geography of the Caribbean Lands. (4-0-4) S.

An analysis of the resources, culture and problems of Mexico, Central America and West Indian Islands.

360. Economic Geography. (4-0-4)

An examination of world industries and the areal significance of economic activities with emphasis on the U.S.

362. Advanced Economic Geography. (4-0-4) S.

The essential agricultural resources of the world and their associated industries are studied with emphasis on the geographic aspects of recent economic development.

370. Geography of Illinois. (4-0-4) W.

A study of Illinois: its climate, land forms, soil, water and mineral resources. Population distribution and economic activities and geographic regions.

380. Cartography. (2-4-4) F, W.

Instruction and practice in the fundamentals of map design, map projections, map construction, and reproduction and data compilation.

381. Field Techniques and Problems. (4-0-4) S.

Experience in defining and solving field problems through collecting and analyzing field data. Plane tabling, simple field maps, aerial photographs.

387. Conservation of Natural Resources. (4-0-4) S.

Study of problems dealing with the wise use of soils, minerals, forests, animals, and waters with special reference to Illinois and the United States.

446. Urban Geography. (4-0-4) F.

A study of the urban areas of the world. Analysis of the origins, development, distribution, character, structure, and functions of urban centers.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**450. North America. (4-0-4) (Omitted 1970-71.)**

An advanced study which emphasizes the United States' land forms, resources, cities, rivers, transportation routes and economic areas.

Prerequisite: Permission of instructor.

451. Geography of South America. (4-0-4) W.

Physical features, resources, peoples, land utilization, and economic development of the countries of South America.

452. Geography of Europe. (4-0-4) F.

Europe: an introduction to the physical geography and the economic development of its countries.

453. Geography of Asia. (4-0-4) F.

Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.

455. Geography of the U.S.S.R. (4-0-4) (Omitted 1970-71.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment in which the Russian people live and work.

456. The North American Midwest. (4-0-4) (Omitted 1970-71.)

A regional approach to climate, settlement, agriculture, industry, trade and transportation of central U.S. Illinois given special attention.

457. Geography of the Pacific. (4-0-4) (Omitted 1970-71.)

A regional study of the Pacific. Development and interpretation of physical, political, economic and social regions in the Pacific.

458. Geography of Africa. (4-0-4) W.

A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.

470. Historical Geography of the United States. (4-0-4) Su, S.

A study of the role geography has played in the various stages in the settlement and subsequent development of the United States.

471. Political Geography. (4-0-4) W.

Study of world powers and their geographic conditions. Analysis of current "hot spots" and the fundamentals of national strength.

480. Advanced Cartography. (2-4-4) Su, S.

A study of maps, their construction, history, uses; techniques in compilation, statistical representation and analysis through maps and charts.

Prerequisite: Geography 380.

486. Geography of Soils. (4-0-4) Su, S.

An advanced course with emphasis on interrelationships of soil with features of the physical and cultural environment especially in Illinois.

Prerequisite: Geography 286 or permission of instructor.

490, 491, 492. Independent Study. (Arr.-Arr.-4 each course)

Provides opportunity for independent study. Designed for the student at the graduate or undergraduate level.

With permission of department head and approval of Dean, Letters and Science, these courses may be taken for less than 4 q. hrs. credit.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor)

and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Nature and Philosophy of Geography. (4-0-4) S.

Analysis of the historical development of basic modern philosophies of geography.

511. Techniques in Geographic Research. (4-0-4) F.

An introduction to selected techniques valuable in geographic research. Emphasis is accorded to statistical bibliographic and interview methods.

Prerequisite: Permission of the instructor.

513. Land Form Regions of the United States. (4-0-4) S.

An areal approach to the study of land form regions of the conterminous states. Various systems of land form classification evaluated.

530. Advanced Historical Geography. (4-0-4) W.

Selected studies of changes in the geographical bases of man's uses of the land from pre-Columbian times to the present in North America.

Prerequisite: Geography 470 or permission of the instructor.

531. Advanced Political Geography. (4-0-4) S.

The role of geography in the development of political regions of all levels. Special emphasis devoted to the power structure of the world.

550. Geography in World Affairs. (4-0-4) (Omitted 1970-71.)

Study of man on the earth. Emphasis upon the natural resources, agricultural and industrial production, and transportation in world affairs.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. A Geography of Man. (4-0-4) (Omitted 1970-71.)

Gives the student a better understanding of the role of geography in human affairs. Attention is given to recent literature in geography.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552. Earth Interpretations. (4-0-4) (Omitted 1970-71.)

For the student with little or no previous work in physical geography. Physical resources are analyzed as they are interrelated to each other and to man.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Seminar in Physical Geography. (4-0-4) F.

Selected topics in weather, climate, land forms, and ocean geography.

Prerequisite: Geography 142 or the equivalent.

562. Seminar in Earth Resources. (4-0-4) Su, W.

A course developing, in some detail, aspects of soil, water, vegetation and minerals as earth resources.

Prerequisite: Permission of the instructor.

563. Seminar in Regional Geography. (4-0-4) S.

Intensive study of special regions of the world. The regions to be determined by the areas of specialization of the students.

Prerequisite: Permission of the instructor.

570. Seminar in Population and Settlement. (4-0-4) (Omitted 1970-71.)

Analysis of the ways in which man and his culture have come to be variously distributed over the surface of the earth.

571. Seminar in Economic Geography. (4-0-4) Su, F, W.

A course devoted to selected topics in economic geography.

574. Seminar in Area Planning. (4-0-4) F.

The study of geographic factors as applied to urban, community, and regional planning. Special emphasis on local planning problems.

Prerequisite: Permission of instructor.

590. Seminar in Educational Geography. (4-0-4)

The place of geography among the disciplines at all levels especially college.

595. Thesis. (Arr.-Arr.-4)

GEOLOGY

UNDERGRADUATE COURSES

140. Physical Geology. (2-4-4)

Study of earth materials, common rocks and minerals, vulcanism, erosional and tectonic processes. Field trip.

243. Historical Geology. (2-4-4)

Origin of the Earth and development of its crust; relations among rock units; fossils as documents of evolution and environment. Field trip.

Prerequisite: Geology 140.

244. Mineralogy. (2-4-4) F.

A study of minerals with emphasis on crystallography, genesis, association, and classification.

Prerequisites: Geology 140 and Chemistry 120 or 150.

245. Principles of Geomorphology. (2-4-4)

Physical and mathematic analysis of processes that modify the Earth's

surface; structural and climatic controls; sequential development. Field trip.

Prerequisite: Geology 140.

343. Structural Geology. (2-4-4) W.

Forces involved in the deformation of rocks with emphasis on the recognition and interpretation of the resultant geologic structures. Field trip.

Prerequisite: Geology 243.

344. Field Geology. (2-4-4) S.

Solution of geologic problems using field methods and techniques in collection, classifying and analyzing data.

Prerequisites: Geology 243 and 245 and permission of the instructor.

345. Petrology. (2-4-4) S.

Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip.

Prerequisite: Geology 140.

346. Economic Geology. (2-4-4) F.

Origin, geologic occurrence and utilization of metallic and non-metallic mineral deposits including fuels and ground-water. Field trip.

440. Independent Study. (Arr.-Arr.-4)

Independent study in the field of geology, designed for the individual needs of the student.

Prerequisites: Geology 243 and 245, or permission of the instructor.

441. Independent Study. (Arr.-Arr.-2)

Independent study in the field of geology, designed for the individual needs of the student.

Prerequisites: Geology 243 and 245, or permission of the instructor.

445. Principles of Stratigraphy. (2-4-4) S.

Development of the stratigraphic column; stratigraphic paleontology; sedimentary facies; principles of correlation. Field trip.

Prerequisite: Geology 243.

447. Sedimentation. (2-4-4) W.

Sources of sediments; environments of deposition; post-depositional changes; properties of sedimentary rocks and classification.

Prerequisite: Geology 345.

449. Invertebrate Paleontology. (2-4-4) F.

Description and classification of major fossil invertebrate groups; preservation of fossils; use of fossils in geologic work. Field trip.

Prerequisite: Geology 243 or permission of instructor.

GERMAN

(See Foreign Languages)

HISTORY**UNDERGRADUATE COURSES****233. History of the United States to 1815. (4-0-4)**

The colonial period; the independence movement; the framing and adoption of the Constitution; the growth of American nationality.

234. History of the United States, 1815 to 1898. (4-0-4)

Jacksonian democracy; Manifest Destiny; the Civil War and Reconstruction; the new industrial society and the agrarian movement.

235. History of the United States since 1898. (4-0-4)

The United States as a world power; the progressive movement; World War I; economic expansion and depression; World War II and after.

254. Ancient History. (4-0-4)

Emphasis on Ancient Near East, Greece, the Roman Empire, and early medieval times.

255. European History, c. 900 to 1600. (4-0-4)

Rise of feudalism, revival of Empire, rise of national states, and beginnings of modern Europe.

256. European History, 1600 to 1815. (4-0-4)

Age of Louis XIV, major events of eighteenth century, French Revolution and Napoleon.

257. European History, 1815 to Present. (4-0-4)

Growth of nationalism and liberalism, unification of Germany and Italy, background of World War I, Rise of Fascism and Nazism, World War II, Cold War.

281. Latin-American History to 1830. (4-0-4) F.

A survey of the colonial period of Latin-American History.

282. Latin-American History since 1830. (4-0-4) W.

A survey of the republican period of Latin-American History.

323. Economic History of the United States, 1607-1860. (4-0-4) F.

An examination of the historical development of the major elements of the American economy to the Civil War.

324. Economic History of the United States, 1860-1929. (4-0-4) W.

An examination of the American economy from the Civil War to the crash of 1929.

325. Economic History of the United States, 1929 to Present. (4-0-4) S.

An examination of the American economy from the crash of 1929 to the present.

330. Prehistoric and Early Historic Backgrounds of European Civilization. (4-0-4) F.

A history of early peoples in Northern Europe through historical and archaeological sources.

343. History of England to 1603. (4-0-4) F, S.

A survey of English History from the beginnings to 1603.

344. History of England and the British Empire, 1603 to 1815. (4-0-4) Su, W, S.

A survey of English History from 1603 to 1815.

345. History of the British Empire since 1815. (4-0-4) Su, S.

A survey of English History since 1815.

360. The Early National Period 1787-1812. (4-0-4) Su, W.

A detailed consideration of the administrations of Washington, Adams and Jefferson.

361. The Early National Period 1812-1840. (4-0-4) S.

A detailed consideration of the administrations of Madison, Monroe, Adams and Jackson.

370. History of Illinois. (4-0-4) F.

A history of the state from the French regime through the Civil War to the present.

371. Expansion and Disunion, 1820 to 1861. (4-0-4) Su, W.

A study of the expansionist period of the mid-nineteenth century and the background of the Civil War era.

372. Civil War and Reconstruction. (4-0-4) S.

A survey of the causes of the Civil War, the War, and its legacy.

378. Czarist Russia. (4-0-4) F.

History of Russia to 1800.

379. Czarist and Soviet Russia. (4-0-4) W.

History of Russia, 1801 to the Present.

380. The Negro in U.S. History. (4-0-4)

Emphasis on the role of the Negro in American history and the importance of the Negro's own history.

397. History of Ancient Greece. (4-0-4) Su, W.

An advanced course in the history of ancient Greece from the Mycenaeans to the Hellenistic Age.

398. History of Rome. (4-0-4) S.

An advanced course in the history of Rome from its prehistoric foundations to the end of the Roman Empire.

399. Summer Study in Ireland. (0-0-9) Su.

Independent research in history. Six weeks of residence in the Republic of Ireland will be required.

Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453, 454. Constitutional History of England. (4-0-4 each course) 453-F. 454-W.**

The development of democratic institutions, common law, court system, and constitutional monarchy to 1485, from 1485 to the present.

460. Recent United States History, 1900-1930. (4-0-4) W.

An intensive study of political, social and intellectual developments in the United States prior to the Great Depression.

461. Recent United States History, since 1930. (4-0-4) F, S.

An intensive study of political, social and intellectual developments in the United States since 1930.

462. Social and Intellectual History of the Russian Revolution, 1825-1917. (4-0-4) (Omitted 1970-71.)

A social and intellectual history of Russia from 1825 to 1917.

463. Social and Intellectual History of the Russian Revolution, 1917 to Present. (4-0-4) (Omitted 1970-71.)

A social, political and intellectual history of the Soviet Union from 1917 to the present.

464. Problems in Latin-American History. (4-0-4) W.

Major problems of Latin-American history.

465. Latin America and the United States. (4-0-4) S.

A study of the history of diplomatic relationships between Latin America and the United States.

466. History of the American Frontier, the Colonial Period, 1492-1783. (4-0-4) W.

The discovery, settlement, and westward movement in the U.S. emphasizing the effect of the frontier in American history.

467. History of the American Frontier, the Trans-Appalachian Frontier, 1783-1850. (4-0-4) S.

The occupation of the Mississippi Valley emphasizing the role of the frontier on the growth of sectionalism before the Civil War.

468. History of the American Frontier, the Western Frontier. (4-0-4) (Omitted 1970-71.)

American expansion into the Trans-Mississippi area in the nineteenth century to the closing of the frontier in 1890.

469. **Constitutional History of the United States to 1865. (4-0-4) (Omitted 1970-71.)**

The constitutional history of the United States from the beginning to 1865.

470. **Constitutional History of the United States since 1865. (4-0-4) (Omitted 1970-71.)**

The constitutional history of the United States from 1865 to the present.

473. **History of United States Immigration. (4-0-4) W.**

The cultural, social, political, and economic impact of immigration on the U.S. and the process of assimilation.

474. **Diplomatic History of the United States, 1776-1898. (4-0-4) S.**

The American Revolution, Napoleonic Era, Expansion, Civil War, Anglo-American approachment.

475. **Diplomatic History of the United States, 1898-1933. (4-0-4) F.**

The new Manifest Destiny, the First World War and Versailles, isolation, and depression.

476. **The American Colonies. (4-0-4) F.**

Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.

477. **The American Revolution and Confederation. (4-0-4) W.**

The origins of the American Revolution; consequences of the revolution; problems of the critical period; American Constitutionalism.

480. **Diplomatic History of the United States, 1933-Present. (4-0-4) W.**

Good neighbor policy, World War II, the Cold War, Vietnam and the United States.

484. **Selected Topics in Byzantine, Islamic and Persian History. (4-0-4) S.**

The most important periods from the fourth to the seventeenth century, including Islamic Spain; some illustrated lectures.

485. **Europe in the Eighteenth Century. (4-0-4) F.**

A study of the rise of new powers with emphasis on the ideas of the Enlightenment.

486. **The World in the Twentieth Century. (4-0-4) F.**

The apex and decline of European hegemony in the age of the world wars, class war, cold war and totalitarianism.

487. **Labor History of the United States, 1607-1900. (4-0-4) (Omitted 1970-71.)**

An examination of the historical growth and change among various categories of American labor and the idea of work from 1607 to 1900.

488. **Labor History of the United States, 1900 to the Present. (4-0-4) (Omitted 1970-71.)**

An examination of the various types of American labor and their relationships to major institutions from 1900 to the present.

489. **The French Revolution. (4-0-4) W.**

A study of the French Revolution and the concept of revolution in general.

490. **Europe in the Nineteenth Century. (4-0-4) S.**

A study of nationalism and other important "isms" of the century.

491. **History of Germany, 1815-1918. (4-0-4) W.**

The rise of nationalism and liberalism, the 1848 Revolution, Bismark and the emergence of the German Reich, World War I.

492. **Germany since 1919. (4-0-4) S.**

The Weimar Republic, National-Socialism, World War II, Postwar Germany.

494. **The History of Racism in the U.S. (4-0-4) S.**

A survey of the racist ideology in the United States as directed at various minority groups.

495. **Social and Intellectual History of the United States in the Colonial Period. (4-0-4) F.**

The backgrounds of social and intellectual history of the United States.

496. **Social and Intellectual History of the United States in the Nineteenth Century. (4-0-4) W.**

The development of ideas and way of life in the United States in the nineteenth century.

497. **Eastern Europe from World War I to the Present. (4-0-4) S.**

Eastern Europe from World War I to the present.

499. **Social and Intellectual History of the United States in the Twentieth Century. (4-0-4) S.**

The development of ideas in the United States with emphasis on changes in thought resulting from two world wars.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

525. **Historical Directions Toward Urban Life. (4-0-4) (Omitted 1970-71.)**

A seminar in the comparative history of emergent urbanization in various periods and places.

535. **Problems in the Emergence of Modern America, 1877-1900. (4-0-4) F.**

An intensive study into the major problems created in this period of industrialization, urbanization, and immigration.

540. Problems in the Diplomatic History of the United States. (4-0-4) S.

Intensive reading in selected problems of U. S. diplomacy.

545. Special Problems in American History. (4-0-4) F.

Special study by intensive reading in an area of history.

546. The Period of the Early Renaissance, 1300-1517. (4-0-4) W.

The multiple currents in early modern society.

547. The Period of the Later Renaissance and of the Reformation, 1517-1648. (4-0-4) S.

Early modern Europe in the Age of French and Turkist challenge to Hapsburg hegemony.

549. European Diplomacy 1919-45. (4-0-4) (Omitted 1970-71.)

Study of interwar diplomacy with emphasis on Paris Peace Treaties, Rapallo, Locarno, Munich, Little Entente, Hitler Stalin Pact.

550. Abraham Lincoln. (4-0-4) (Omitted 1970-71.)

A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

561. Historiography and Historical Methods. (4-0-4) F.

A study of the methods of historical research and a study of various approaches used in the interpretation of historical evidence.

563. Seminar in American History. (4-0-4) S.

Intensive study of special topics in American History, to be determined by the interests of the students.

564. Seminar in European History. (4-0-4) F.

Intensive study in special topics in European history, to be determined by the interests of the students.

565. Seminar in Colonial American History. (4-0-4) S.

Research in topics dealing with Colonial American history.

566. Seminar in Civil War and Reconstruction. (4-0-4) W.

Intensive study in topics dealing with Civil War and Reconstruction.

567. Seminar in Social and Intellectual History. (4-0-4) S.

Research in topics dealing with social and intellectual history of the United States.

568. Seminar in Eighteenth Century Europe. (4-0-4) W.

Intensive study in topics dealing with eighteenth century Europe.

569. Seminar in Nineteenth Century Europe. (4-0-4) W.

Intensive study in topics dealing with nineteenth century Europe.

570. Seminar in Twentieth Century Europe. (4-0-4) (Omitted 1970-71.)

Intensive study in topics dealing with twentieth century Europe.

571. Seminar in Twentieth Century America. (4-0-4) W.

Intensive study in topics dealing with twentieth century America.

572. Russian Foreign Policy, 1814-1960. (4-0-4) (Omitted 1970-71.)

Selected topics in Russian foreign policy from 1814 to 1960.

573. Seminar in Modern German History. (4-0-4) (Omitted 1970-71.)

Intensive study of topics dealing either with 19th century Germany, Weimar Republic, National Socialism or postwar Germany.

574. Seminar in the American West. (4-0-4) F.

An intensive study of western topics with emphasis on a seminar paper.

575. Seminar in the Labor History of the United States. (4-0-4) (Omitted 1970-71.)

A detailed study of selected topics in the history of American labor from 1607 to the present stressing the production of a research paper.

576. Seminar in the History of East Central Europe. (4-0-4) S.

Seminar in the history of East Central Europe.

577. Seminar in the Middle Ages and the Renaissance. (4-0-4) F.

Study and research in selected Medieval and Renaissance topics.

595. Thesis. (Arr.-Arr.-4)

JOURNALISM

(Taught in the Department of English)

UNDERGRADUATE COURSES

210. Introduction to Journalism. (4-0-4) S.

The historical development in America of the mass media, with emphasis on the newspaper; the mechanics, the craft, and the ethics of journalism.

211. Beginning Reporting. (4-0-4) F.

Principles of gathering and writing news, with practice in the classroom.

212. Beginning Reporting II. (4-0-4) W.

Techniques of reporting are stressed, with practice in the classroom and on the *East ern News*. Reporting of specialized stories is introduced.

Prerequisite: Journalism 211.

310. News Editing and Make-Up. (4-0-4) F.

Editing the news, with attention to headwriting and newspaper makeup and design. Editing of newspaper photography is also discussed.

Prerequisite: Journalism 212.

311. Advanced Reporting. (4-0-4) W.

Advanced types of news investigation and treatment; practical experience on a commercial newspaper. Writing of editorials.

Prerequisite: Journalism 310.

312. Feature Writing. (4-0-4) S.

Newspaper features and magazine articles. Study of markets, selection and investigation of subjects, organization and preparation of articles.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460. Supervision of High School Publications. (4-0-4) Su.**

Problems for advisors to high school publications: staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

(The undergraduate minor consists of twenty-four quarter hours, including 330 or 332. The addition of Education 487 and 488 is necessary for certification as an Instructional Materials Coordinator. *Junior standing* is a prerequisite for beginning the minor. Those intending to take a minor should work out their programs with the instructors.)

UNDERGRADUATE COURSES**320. The School Library Materials Center. (4-0-4) Su, F, W.**

The services and administration of the school library materials center.

330. Literature for Children. (4-0-4) F, S.

Types of resources best suited to children of grades 1 through 6. Reading and evaluation of materials.

332. Literature for Young People. (4-0-4) Su, W.

Types of resources best suited for adolescents. Reading and evaluation of materials.

449 (490). Observation and Practice. (4-0-4)

Practical experience in library work with special emphasis on service to the public. Weekly seminars are held.

Prerequisite: At least four Library Science courses including 450, 460, and 470.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**450. Reference Materials and Services. (4-0-4) Su, F, S.**

Introduction to general and specialized sources of information: their content, evaluation, and use.

460. Selection of Library Materials. (4-0-4) Su, F, W.

Principles and practices related to selecting and acquiring all types of library materials.

470 (430). Organization of Library Materials. (4-0-4) Su, F, S.

Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other library materials.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

For students working toward the Master of Science Degree in Library Science: A strong undergraduate background of general education is recommended; undergraduate preparation in Library Science is not required. A reading knowledge of one modern foreign language will be required of all graduate students.

510. History of Libraries. (4-0-4) F.

Study of the development of the library as an institution.

520. Library Administration. (4-0-4) S.

Principles of administration with practical application to the management of libraries.

Prerequisites: Library Science 450, 460, 470.

560. Organization of Information and Library Materials. (4-0-4) W.

Advanced study of information systems and library catalogs; history, preparation, evaluation, management and use.

Prerequisites: Library Science 450, 470.

561. Introduction to Library Research. (4-0-4) W.

A study of the introductory methods of research in the field of Library Science.

Prerequisites: Library Science 450, 460, 470.

571. Social Science Literature. (4-0-4) F.

Intensive study of information sources in sociology, geography, psychology, economics, anthropology, history, and political science.

Prerequisites: Library Science 450, 460.

572. Literature of the Humanities. (4-0-4) S.

Intensive study of information sources in religion, philosophy, music, art, literature, and language.

Prerequisites: Library Science 450, 460.

573. Literature of Science and Technology. (4-0-4) W.

Intensive study of information sources in science and technology.

Prerequisites: Library Science 450, 460.

585. School Library Problems. (4-0-4) F.

Examination of current trends, problems, and research relating to school libraries and media centers.

586. Mechanization of Library Operations. (4-0-4) S.

Survey and demonstration of machine applications in library operations.

Prerequisites: Library Science 460, 470, 560.

595. Thesis. (Arr.-Arr.-4)**LIFE SCIENCE****UNDERGRADUATE COURSES****100. Introductory Life Science. (2-4-4)**

A study of the fundamental processes and structures common to all living things.

This course is prerequisite to all botany and zoology courses.

340. Methods of Teaching Biological Science in High School. (4-0-4)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Biological Science in High School. (2-0-2) S.

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing. Enrollment is restricted to students with a minor or a field of specialization in life science (botany, zoology or biological science) who do not have credit for Life Science 340.

MATHEMATICS

Notes. In planning student programs it is important to check the course prerequisites as listed with the course descriptions below. "College preparatory mathematics," as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics," "consumer mathematics," "shop mathematics," etc.

A limited amount of programmed materials and tutoring service is available in the mathematics office for students who may wish to review high school mathematics before enrolling in Mathematics 130.

Students with a weak background in mathematics may satisfy the general requirements in mathematics by taking Mathematics 125 if 4 quarter hours are required, Mathematics 125 and 126 if 8 quarter hours are required. Students with a background of two and one-half or more units of college preparatory mathematics in high school should take courses numbered 130 or higher to satisfy general requirements.

Students with a background of three or more units of college preparatory mathematics including trigonometry should take the mathematics department placement test before enrolling in Mathematics 130.

UNDERGRADUATE COURSES

122. Numerals and Numbers I. (3-0-3)

Concepts of numeration and number systems, sets, mathematical systems, natural numbers, integers, and modular arithmetic.

Restricted to students in the curriculum for elementary and junior high school who do not meet the prerequisites for Mathematics 222.

123. Numerals and Numbers II. (3-0-3)

A continuation of Mathematics 122. Mathematical systems; rational and real numbers; complex numbers.

Prerequisite: Mathematics 122.

125. Elementary Mathematics. (4-0-4)

A modern approach to selected units of arithmetic, algebra and geometry.

Not open to mathematics majors or minors.

126. Elementary Mathematics. (4-0-4)

Modern topics in elementary algebra including logarithms and trigonometry. Not open to students with credit in Mathematics 130 or above.

Prerequisite: Mathematics 125.

128. Elements of Algebra. (4-0-4) Su, F, W.

Fundamental concepts of algebra.

Not open to any student whose curriculum requires Mathematics 134.

129. Algebra. (4-0-4) Su, W, S.

Concepts taught in Mathematics 128 from a more advanced point of view. Credit is not given for both Mathematics 129 and 130.

Prerequisite: Mathematics 128, or satisfactory score on the Mathematics Placement Test.

130. Algebra. (4-0-4)

Basic algebraic manipulations, elementary functions, and solutions of equations and inequalities. Credit is not given for both Mathematics 129 and 130.

Prerequisite: Two years of college preparatory mathematics.

131. Trigonometry. (4-0-4)

Trigonometric functions, their properties and applications; complex numbers and polynomials.

Prerequisite: Mathematics 130.

132. Elementary Functions. (4-0-4)

The combined material of 130 and 131.

Prerequisite: Three years of college preparatory mathematics and satisfactory placement test score. Not offered for credit for those who have credit for Mathematics 130 or 131.

134. Analytic Geometry. (4-0-4)

Coordinate systems, straight lines, conic sections, polar and parametric forms; curve sketching techniques. Vector approach is used.

Prerequisite: Mathematics 131, or 132, or three years of college preparatory mathematics including trigonometry, and satisfactory placement test score.

135. Calculus. (4-0-4)

A review of elementary topics followed by the study of limits, continuity, derivatives and the applications of these concepts.

Prerequisite: Mathematics 134.

210. Finite Mathematics. (4-0-4) S.

Elementary set theory, partitions and counting, probability, vectors and matrices. Applications selected from business and social science.

Prerequisite: Mathematics 129, or satisfactory score on Mathematics Placement Test. Not open to mathematics majors or minors.

211. Mathematics Analysis. (4-0-4) (Omitted 1970-71.)

Polynomial calculus including derivatives and integrals of functions of a single variable, with applications.

Prerequisite: Mathematics 210. Not open to students enrolled in a curriculum which includes Mathematics 135 or Mathematics 234.

222. Numerals and Numbers III. (4-0-4) F, W.

Elementary mathematics of real numbers presented from an advanced point of view. Not open to students with credit in Mathematics 123.

Prerequisites: Three years of mathematics in high school, and an ACT mathematics score above the 75th percentile; or permission of instructor. Enrollment in the curriculum for elementary or junior high school teachers.

225. An Introduction to College Mathematics. (4-0-4) W, S.

Numeral systems; the natural number system; the computation algorithms; rules of inference; sets, relations, functions; introduction to groups and fields.

231. Introduction to Algorithmic Methods. (4-0-4)

The application of procedure-oriented computer languages to both numeric and non-numeric algorithms.

Not open to freshmen.

232. Introduction to Computer Programming. (1-0-1)

Computer programming in FORTRAN.

Not open to freshmen.

234. Analytic Geometry and Calculus. (4-0-4) S.

A review of analytic geometry. The calculus of polynomials with special emphasis on applications.

Prerequisite: Mathematics 134. No credit toward graduation if student has credit for Mathematics 135 or its equivalent. Not open to students enrolled in a curriculum which includes Mathematics 135.

235, 236, 237. Calculus. (4-0-4 each course)

The study of the definite and indefinite integral with applications, vector analysis, partial differentiation, multiple integration and infinite series.

Prerequisite: Mathematics 135; to be taken in sequence.

320. Mathematics in Grades K-3. (2-0-2)

Methods and materials for teaching mathematics in grades K-3. Open only to prospective elementary school teachers.

Prerequisite: Mathematics 322.

321. Mathematics in Grades 4-6. (2-0-2)

Methods and materials for teaching mathematics in grades 4-6. Open only to prospective elementary school teachers.

Prerequisite: Mathematics 322.

322. Algebra and Geometry I. (4-0-4)

The organization and structure of algebraic and geometric models. Study of such systems from an advanced point of view.

Prerequisite: Mathematics 222; or Mathematics 122 and 123. May not be taken concurrently.

327. College Geometry I. (4-0-4) F, W, S.

A review of elementary geometry. The foundations of geometry. Euclidean geometry from a modern point of view.

Prerequisite: Mathematics 134.

328. College Geometry II. (4-0-4)

A formal development of Euclidean geometry from a modern point of view. Selected topics in advanced Euclidean geometry.

Prerequisite: Mathematics 327.

340. Teaching Mathematics. (4-0-4)

Methods and materials for teaching mathematics in grades 9-12.

Prerequisites: Education 333, Mathematics 237, 327, 353; or permission of department head. Admission to teacher education and third quarter junior standing.

341. Teaching Secondary Mathematics. (2-0-2) W, S.

The use of methods and materials for the teaching of mathematics in grades 9-12.

Prerequisites: Education 333; Mathematics 237, 327, 353; or permission

of instructor. Not open to students with credit in Mathematics 340 or to mathematics majors.

344. Linear Algebra. (4-0-4)

Vector spaces; the algebra of matrices; application to systems of linear equations, linear transformations, transformation of coordinate axes.

Prerequisite: Mathematics 353 or permission of the instructor.

350. Differential Equations. (4-0-4) F, W, S.

Formal solutions of ordinary differential equations; a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications.

Prerequisite: Mathematics 237.

351. Differential Equations. (4-0-4) W, S.

Systems of differential equations, series solutions, approximations to solutions, Laplace Transformations, partial differential equations, boundary value problems.

Prerequisite: Mathematics 350.

353 (343), 354. Modern Algebra I and II. (4-0-4 each course) 354-S.

An introduction to modern algebra including: operations and relations, mappings, groups, rings, integral domains, fields.

Prerequisite: Mathematics 235; to be taken in sequence.

357. Numerical Calculus. (4-0-4) (Omitted 1970-71.)

Construction of algorithms for interpolation, quadrature, solution of equations and systems, solution of ordinary differential equations.

Prerequisites: Mathematics 231 and 237.

449. Mathematics Seminar. (4-0-4) (Omitted 1970-71.)

Study of special topics in mathematics from algebra, analysis, geometry, number theory and statistics.

Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

455. Linear Algebra II. (4-0-4) Su.

Vector spaces, linear transformations, and dual spaces, invariant directsum decompositions, jordan form, inner product spaces.

Prerequisites: Mathematics 344, 353, or permission of instructor.

458. An Introduction to Differential Geometry. (4-0-4) F.

The Euclidean space-functions, transformations, differential fields and forms, and study of curves in Euclidean space.

Prerequisite: Mathematics 237.

460, 461. **Advanced Calculus.** (4-0-4 each course) 460-Su, W. 461-Su, F, S.

A study of limits, continuity, differentiability and integrability of functions; vectors; implicit functions; line and surface integrals.

Prerequisite: Mathematics 237. To be taken in sequence.

470, 471. **Probability and Statistics I & II.** (4-0-4 each course)

Basic concepts of probability and statistics.

Prerequisite: Mathematics 236; to be taken in sequence.

480. **Mathematics of Finance.** (4-0-4) (Omitted 1970-71)

Applications of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance.

Prerequisite: Mathematics 131.

482. **Algebra and Geometry II.** (4-0-4) Su.

The study of algebraic structure and informal geometry in elementary mathematics.

Prerequisites: Enrollment in the curriculum for elementary teachers. Mathematics 322; or permission of the instructor.

490. **History of Mathematics.** (4-0-4) Su.

The Ancient Orient. The period of Ancient Greece. The Hellenistic period. Seventeenth to nineteenth century A.D. The beginnings of Modern Mathematics.

Prerequisite: Mathematics 134; or permission of the instructor.

491. **Number Theory.** (4-0-4) Su.

Divisibility, primes, congruences, solution of congruences, power residues, quadratic reciprocity, numerical functions, diophantine equations.

Prerequisite: Mathematics 353.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. **Numerical Analysis.** (4-0-4) Su, W.

Rounding errors, difference equations, solutions of equations and systems of equations, interpolation, numerical differentiation.

Prerequisites: Mathematics 231 or 507; and Mathematics 350.

507. **Digital Computer Techniques.** (4-0-4) F.

Programming techniques in the application of procedure-oriented languages to numeric and non-numeric algorithms.

Prerequisite: Mathematics 237 or permission of the instructor.

508. Intermediate Computer Programming. (4-0-4) S.

The structure and syntax of ALGOL. Selective topics in computer science.

Prerequisite: Mathematics 231, or Mathematics 507, or permission of the instructor.

510, 511, 512. Modern Algebra. (4-0-4 each course) 510-F. 511-W. 512-S.

Groups. Rings. Fields. Galois theory.

Prerequisite: Mathematics 344 and 353 or permission of the instructor.

515. Probability. (4-0-4) Su, F.

Elementary and general probability spaces. Random variables, multivariate distributions and the algebra of expectations.

Prerequisite: Mathematics 237.

516, 517. Mathematical Statistics. (4-0-4 each course) 516-Su, W. 517-S.

Random sampling, the law of large numbers, confidence intervals, regression, sampling from a normal population and testing hypotheses.

Prerequisite: Mathematics 515 or permission of instructor; to be taken in sequence.

520, 521. Higher Geometry. (4-0-4 each course) 520-Su; 521-(Omitted 1970-71.)

A selection of topics from projective geometry, differential geometry, non-Euclidean geometries.

Prerequisite: Mathematics 344 or permission of the instructor.

522. Topology. (4-0-4) Su, F.

Metric spaces. Topological spaces. Connectedness. Compactness.

Prerequisite: Mathematics 460, or permission of the instructor.

530, 531, 532. Real Variables. (4-0-4 each course) 530-F; 531-W; 532-S.

Set theory. Cardinal numbers. Real numbers. Measure. Measurable sets. Lebesgue and Riemann integrals. The fundamental theorem of the calculus.

Prerequisite: Mathematics 461, or permission of the instructor.

533, 534, 535. Complex Variables. (4-0-4 each course) (Omitted 1970-71.)

Complex numbers; analytic functions; conformal mapping; complex integration; series and products; elliptic functions; analytic continuation.

Prerequisite: Mathematics 461, or permission of the instructor.

540. The Teaching of Arithmetic in the Primary and Intermediate Grades. (4-0-4) Su.

The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades one through six.

Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 482 or permission of the instructor.

541. The Teaching of Mathematics in Grades 7-9. (4-0-4) (Omitted 1970-71.)

The techniques, methods and materials used in teaching mathematics in grades seven, eight, and nine.

Prerequisite: Two years of experience teaching in secondary schools.

545, 546, 547. Independent Study in Mathematics. (4-0-4 each course)

Advanced work on a topic or problem selected by the student, subject to the approval of his advisor.

Prerequisite: Twelve quarter hours of credit in graduate level mathematics.

550. Mathematics in Modern Education and Life. (4-0-4) Su, S.

The subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. Problems in the Teaching of Secondary Mathematics. (4-0-4) Su.

Study of problems which arise in teaching secondary mathematics; research in mathematics education; assigned readings; reports.

Prerequisite: Two years of experience teaching in secondary schools.

595. Thesis. (Arr.-Arr.-4)**610. Groups. (4-0-4) (Omitted 1970-71.)**

Preliminaries, abelian groups, P-groups, permutation groups, group extensions, representation theory.

Prerequisite: Mathematics 512.

611. Rings and Fields. (4-0-4) (Omitted 1970-71.)

Field theory, galois theory, ideal theory, ring theory.

Prerequisite: Mathematics 610.

612. Topological Groups. (4-0-4) (Omitted 1970-71.)

Topological groups, homomorphisms of topological groups, direct products, local properties of topological groups, locally compact topological groups.

Prerequisites: Mathematics 512 and 522.

620. Differential Geometry I. (4-0-4) W.

The classical theory of curves and surfaces in three dimensional Euclidean space.

Prerequisites: Mathematics 237 and 344.

621. Differential Geometry II. (4-0-4) S.

Differentiable manifolds and tensors. Application to differential geometry of curves and surfaces. Riemannian geometry of dimension 2. Non-Euclidean geometries.

Prerequisites: 350 and 620.

622. Introduction to Differentiable Manifolds. (4-0-4) (Omitted 1970-71.)

Introduction to the notions of differentiable manifolds. Fiber bundles and Lie groups.

Prerequisites: Mathematics 351, 522, and 621.

623. Algebraic Topology I. (4-0-4) Su, W.

Introduction to homology theory. Complexes, homology and cohomology groups, topological invariance of homology properties.

Prerequisites: Mathematics 510 and 522.

624. Algebraic Topology II. (4-0-4) S.

Introduction to the homotopy theory. Manifolds, spheres, Poincaré and Alexander. Duality theorems, the fundamental group, covering complexes.

Prerequisite: Mathematics 623.

PHILOSOPHY

Course Sequences

Philosophy 250 or Philosophy 301 are recommended as the most appropriate choice for students who elect a single course in philosophy. As introductory treatments of the techniques and issues of philosophic inquiry, Philosophy 250 focuses attention on representative problems without reference to historical perspective, whereas Philosophy 301 explores a range of problems in an historical context. If a student anticipates the election of more than one of the history courses, it would be advisable to schedule them in the order of their historical sequence.

For students who may elect philosophy as their option to satisfy the humanities requirement, at least three approaches are feasible (depending on the student's interest): 1) Philosophy 250 and/or Philosophy 301 plus additional work in the History of Philosophy, 2) a sequence in the History of Philosophy beginning with Philosophy 301, and 3) a selection of courses including Philosophy 250, 270, and more advanced courses.

UNDERGRADUATE COURSES

250. Problems of Philosophy. (4-0-4)

An introduction to philosophic inquiry through analysis of selected problems: Knowledge, Value, Religion, and Alternative World Views.

270. Logic. (4-0-4)

An introduction to the principles of sound reasoning: logic and language, deductive and formal logic, empirical scientific methodology.

301. History of Philosophy: Ancient. (4-0-4)

An historical approach to the nature of Man, God, the World, and Value: the Pre-Socratics, Plato, and Aristotle.

305. History of Philosophy: Medieval. (4-0-4) W.

An examination of the principal philosophers from Epicurus through St. Thomas Aquinas.

Prerequisite: Philosophy 250 or 301.

306. History of Philosophy: Modern. (4-0-4) F, W, S.

Philosophic thought from Galileo to Kant: the foundations of modern science and implications for religious, moral, and political theory.

Prerequisite: Philosophy 250 or 301.

310. Nineteenth Century Philosophy: European. (4-0-4) Su, W.

German Idealism, early Existentialism, scientific philosophy, and dialectical materialism: Hegel, Nietzsche, Kierkegaard, Mill, and Marx.

Prerequisite: Philosophy 250 or 301.

330. Social and Political Philosophy. (4-0-4) S.

A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation.

Prerequisite: Junior standing and at least four quarter hours in philosophy, or consent of the instructor.

360. Symbolic Logic. (4-0-4) F.

An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus.

Prerequisite: Junior standing and Philosophy 270 or permission of the instructor.

380. Contemporary Philosophy: European. (4-0-4) S.

A study of the development of Analytical Philosophy, Logical Positivism, Phenomenology, and Existentialism.

Prerequisite: Junior standing and at least four quarter hours in philosophy (Philosophy 306 recommended), or permission of the instructor.

381. American Philosophy. (4-0-4) F.

An examination of the principal American philosophers from Jonathan Edwards to Dewey and Whitehead.

Prerequisite: Junior standing and at least four quarter hours in philosophy (Philosophy 306 recommended), or permission of the instructor.

402. Ethics. (4-0-4) W, S.

Analysis and evaluation of principal theories and problems concerning Right, Good, validity of moral standards, and moral conduct.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.

404. Aesthetics. (4-0-4) F.

A critical examination of aesthetic experience and fine art: artistic creativity, the work of art, and criteria of judgment.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.

410. Philosophy of Religion. (4-0-4) Su, W.

A philosophical interpretation of religion, religious experience, and fundamental problems: God, evil, immortality, religious knowledge.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250, or permission of the instructor.

415. Philosophy of History. (4-0-4) S.

A critical analysis and evaluation of theories proposed by philosophers in their attempts to specify the nature of history and historical inquiry.

Prerequisite: Eight quarter hours in philosophy, including Philosophy 250 and Philosophy 301 or 306; or permission of the instructor.

420. Philosophy of Science. (4-0-4) F.

An analysis of the key assumptions and implications of modern science: form, hypothesis, verification, causality, law, and methodology.

Prerequisite: Eight quarter hours in philosophy (Philosophy 270 and 306 recommended) or permission of the instructor.

430. Philosophy and Culture: Western. (4-0-4) W.

An analysis of the basic scientific, religious, and philosophical assumptions of Western civilization and its principal cultures.

Prerequisite: At least eight quarter hours in philosophy or permission of the instructor.

431. Philosophy and Culture: Eastern. (4-0-4) S.

An analysis of the basic philosophical and religious assumptions of Eastern civilization: India, China, and Japan.

Prerequisite: Philosophy 430 or permission of the instructor.

448. Independent Study. (4-0-4) S.

Advanced study of selected problems, topics, or philosophers.

Prerequisite: At least sixteen quarter hours in philosophy and permission of the instructor.

PHYSICAL SCIENCE

Note: Physical Science 100 and 101 are restricted to students in curricula for elementary teachers and for junior high school teachers. Physical Science 100 and 101 may be taken in either order or simultaneously.

UNDERGRADUATE COURSES

100. Physical Science. (2-4-4)

Basic concepts of physical science are presented through study of topics selected from physics and astronomy.

101. Physical Science. (2-4-4)

Principles of chemistry having particular application in the field of elementary education are presented.

Credit may not be accepted toward a degree for both Physical Science 101 and Chemistry 110 or 120 or 150.

340. Methods of Teaching Physical Sciences. (4-0-4) W.

The presentation of science lessons and the examinations of current literature and new approaches to chemistry and physics.

Prerequisite: Admission to teacher education and junior standing.

341. Methods of Teaching Physical Science for Minors. (2-0-2) W.

The presentation of science lessons as well as the examination of current literature and new approaches to teaching chemistry and physics.

Prerequisites: Admission to teacher education and junior standing. Enrollment restricted to minors in chemistry and physics who do not have credit for Physical Science 340, Geography 340, or Life Science 340.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

540. Special Problems in Physics Theory. (2-4-4) F.

A special institute course covering both selected topics in modern physics and methodology in physics.

Prerequisite: Attendance at the 1970 Summer Institute in Physics for senior high school teachers.

PHYSICS**UNDERGRADUATE COURSES****060. Physics Institute Seminar. (4-0-0) Su.**

A series of lecture-seminars directed towards improving the high school physics course, and increasing the enrollment in high school physics.

Prerequisite: Attendance at the 1970 Summer Institute in Physics for senior high school teachers.

Note: Physics 110, 111, and 112 are intended for students desiring a cultural exposure to physics but lacking the science and mathematics background for enrollment in the Physics 130, 131, 132 series. (Students with more extensive background should consider the latter sequence.) These courses satisfy the laboratory science requirement.

110. Basic Physics I. (2-4-4) F.

Macroscopic universe; force vectors; torques in equilibrium; free-fall and vehicular acceleration problems; Newton's 2nd Law.

111. Basic Physics II. (2-4-4) W.

Space phenomena; work and energy; atomic structure; study of light.

Prerequisite: Physics 110 or permission of instructor.

Most of the content of Physics 110 and 111 is also covered in Physics 130 at a faster pace. Physics 110 and 111 could replace Physics 130 in the 130, 131, 132 sequence. Credit may not be accepted toward a degree for Physics 110, 111 and for 130.

112. Basic Physics III. (2-4-4) S.

Relativity; electricity; electromagnetism.

Prerequisite: Physics 110 and 111 or permission of instructor.

121. Physics for Speech Students. (2-4-4) W.

Sound and acoustics as applied to speech correction. Enrollment limited to speech correction majors or minors.

130, 131, 132. First Year College Physics. (2-4-4 each course)

Physics 130, mechanics; 131, electricity and magnetism; 132, kinetic theory and heat; special relativity; introduction to atomic and nuclear physics.

Acceptable as a year of laboratory science in any curriculum. Physics 130 is a prerequisite to Physics 131 and 132. Physics 131 and 132 may be taken concurrently.

212. Modern Physics. (4-0-4) Su.

A special institute course for high school teachers of physics; particle aspects of EM radiation; the wave aspects of particles.

Prerequisite: Attendance at the 1970 Summer Institute in Physics for senior high school teachers.

236. Geometrical, Physical, and Quantum Optics. (2-4-4) Su, F, S.

Continuation of first year physics. Simple harmonic motion; wave motion; geometrical optics; interference; diffraction; polarization; quantum optics.

Prerequisite: Physics 130 and 131.

Co-requisite: Mathematics 135 or permission of the instructor.

239. Mechanics. (4-0-4) Su, F, W.

One dimensional motion; simple harmonic motion; line integral computation of work; vector analysis in coordinate systems; conservative fields.

Prerequisite: First year college physics and Mathematics 135, co-requisite Mathematics 235.

240. Mechanics. (4-0-4) W, S.

Forced and damped harmonic motion; central force motion; gravitational fields and potential; accelerated coordinate systems; vibrating string.

Prerequisite: Physics 239.

300. Astronomy I. (4-0-4) Su, S.

An introduction to: the solar system; stars; starlight; interstellar material; evolution of stars; galaxies.

Open to all students. Does not count towards a physics major or minor.

315 (250). Electronics. (2-6-4) Su, S.

A study of the fundamentals of tube and transistor electronics. Emphasis on scientific applications.

Prerequisite: First year college physics and Mathematics 135.

341. Electricity and Magnetism. (4-0-4) F.

Coulomb's Law; electric fields; potential; Gauss' Law; capacitance; dielectrics; electrostatic problems; electrostatic energy; DC circuits.

Prerequisite: First year college physics and Mathematics 236.

342. Electricity and Magnetism. (4-0-4) W.

Magnetic field due to steady currents; inductance; changing electric currents; magnetic materials; L, R and C circuits; Maxwell's Equations.

Prerequisite: Physics 341.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**461, 462. Experimental Physics. (Arr-8-4 each course) 461-Su. 462-W.**

Experiments from various phases of physics. Emphasis is placed upon selection, procedure, analyzing results, and reporting.

Prerequisite: Physics 466 and one year of calculus. 461 and 462 may be taken in either order.

465. Heat and Thermodynamics. (4-0-4) Su, S.

Thermometry, thermodynamic laws; changes of phase; gas laws; adiabatic transformations; entropy, kinetic theory and statistical mechanics.

Prerequisite: First year college physics and one year of calculus.

466. Quantum Mechanics and Atomic Physics I. (3-3-4) Su, S.

Schrodinger equation, 'uncertainty principle; atomic spectroscopy, outer electrons.

Prerequisite: First year college physics and one year of calculus.

467. Quantum Mechanics and Atomic Physics II. (3-3-4) F.

Exclusion principle; angular momentum; atomic spectroscopy, inner electrons; perturbation.

Prerequisite: Physics 466.

468. Nuclear Physics. (4-0-4) W.

Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical nuclear models.

Prerequisite: Physics 466 or 467 or permission of the instructor.

469. Solid State Physics. (4-0-4) S.

Crystal structure; thermal properties of solids; free electron theory and band theory of metals; semiconductors and insulators; crystal imperfections.

Prerequisite: Physics 466 or 467 or permission of the instructor.

480, 481. Independent Study. (Arr.-8-4 each course) Su, S.

Selected problems based on the student's interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

Prerequisite: Permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Mathematical Physics. (4-0-4) Su, F.

Special differential equations; vectors; tensors; matrices; eigen equations; diagonalization; calculus of variations.

Prerequisite: Physics 240 and 342.

534. Theoretical Mechanics. (4-0-4) Su, W.

Mechanics of a system of particles; variational principles and Lagrange's equations; rigid-body kinematics; special relativity.

Prerequisite: Physics 240 or equivalent and Mathematics 351.

535. Theoretical Mechanics. (4-0-4) S.

Rigid-body motion; Hamilton's equations; canonical transforms; small oscillations; continuous systems.

Prerequisite: Physics 534.

540. Electrodynamics. (4-0-4) F.

Electrostatic; general methods of solving potential problems; boundary value problems; multipoles, dielectrics; magnetostatics.

Prerequisite: Physics 342.

541. Electrodynamics. (4-0-4) W.

Maxwell's equations; electromagnetic waves; wave guides and resonant cavities; radiation and diffraction; special theory of relativity.

Prerequisite: Physics 540.

542. Electrodynamics. (4-0-4) S.

Relativistic particle dynamics; collisions; radiation by moving charges; multipole fields; radiation damping, self-fields, scattering and absorption.

Prerequisite: Physics 541.

560. Quantum Mechanics. (4-0-4) F.

Eigen functions of the Schrodinger equation for various central fields; angular momentum; perturbations dependent on and independent of time.

Prerequisite: An undergraduate major in physics.

561. Quantum Mechanics. (4-0-4) W.

The hydrogen atom and extension of the Schrodinger equation to other atoms and effects; scattering; matrices; spins.

Prerequisite: Physics 560.

562. Quantum Mechanics. (4-0-4) S.

Perturbation theory; identical particles; quantum electrodynamics.

Prerequisite: Physics 561.

580. Independent Study in Physics. (Arr.-8-4) Su, S.

Selected problems based upon the student's background and interests. Laboratory, reading, conference, and oral reports.

Prerequisite: Permission of the instructor.

590. Mathematical Physics. (4-0-4) F, W.

Scalar and vector fields and the variational principle; complex variables; Riemann surfaces; calculus of residues; Fourier transforms.

Prerequisite: Physics 520. Four hours a week.

591. Mathematical Physics. (4-0-4) W.

Boundary conditions and eigen functions; Green's functions; integral equations; kernels; La Place's and Poisson's Equations.

Prerequisite: Physics 590.

595. Thesis. (4 q. hrs.)

POLITICAL SCIENCE

UNDERGRADUATE COURSES

100. Introduction to Political Science. (4-0-4)

The basic concepts of Political Science: types of governmental structures and functions, political processes, political philosophies.

110. American National Government: Constitutional Foundations. (4-0-4)

The fundamental principles of the American Constitutional system: federalism, civil liberties, citizenship, elections, political parties.

111. American National Government: Policy Making and Administration. (4-0-4)

Congress, the Presidency, the bureaucracy, the judiciary; policy making and administration in foreign affairs, defense, business regulation, housing, etc.

Prerequisite: Political Science 100 or 110.

200. Bibliography of Political Science. (1-2-2) F.

A survey of library materials and library research techniques in Political Science.

220. Introduction to International Relations. (4-0-4) Su, F.

An examination of the nature of the nation-state system and of the sources of conflict in the international community.

240 (465). Introduction to Public Administration. (4-0-4) W.

A study of the growth, principles and problems of public administration and its relationship to politics.

Prerequisite: Political Science 111.

260 (112). State and Local Government. (4-0-4)

The legal authority, structure, leadership and functions of state, county and city governments; an analysis of the Illinois state constitution.

320 (370). American Foreign Policy. (4-0-4) Su, F.

An analysis of major American foreign policy problems and the factors shaping foreign policy decisions.

Prerequisite: Political Science 220 or permission of the instructor.

321 (221). Comparative World Politics. (4-0-4) W.

An analysis of world politics since World War II with an emphasis upon the impact of continuing crises upon the policies of the major world powers.

Prerequisite: Political Science 220 or permission of the instructor.

322 (222). International Organization. (4-0-4) S.

An analysis of the development, scope and functions of general and regional international organizations.

Prerequisite: Political Science 220 or permission of the instructor.

330. Comparative Political Systems: The United Kingdom. (4-0-4) F.

The government and politics of the United Kingdom; an introduction to general comparative concepts.

Prerequisite: Political Science 100 or permission of the instructor.

331. Comparative Political Systems: Western Europe. (4-0-4) W.

The government and politics of France, West Germany, and/or other Western European countries; the application of general comparative concepts.

Prerequisite: Political Science 100 or permission of the instructor.

332. Comparative Political Systems: The U.S.S.R. (4-0-4) Su, S.

The government and politics of the Union of Soviet Socialist Republics; the application of general comparative concepts.

Prerequisite: Political Science 100 or permission of the instructor.

333 (481). Comparative Political Systems: Latin America. (4-0-4) F.

The government and politics of Latin American countries; the application of general comparative concepts.

Prerequisite: Political Science 100 or permission of the instructor.

334. Comparative Political Systems: The Middle East. (4-0-4) Su.

The governments and politics of the countries of the contemporary Middle East with an emphasis upon the problems of political modernization.

Prerequisite: Political Science 100 or permission of the instructor.

335. Comparative Political Systems: Africa. (4-0-4) W.

The political systems and the patterns of development in Africa with an emphasis upon the processes of political modernization in contemporary Africa.

Prerequisite: Political Science 100 or permission of the instructor.

336. Comparative Political Systems: Asia. (4-0-4) S.

The political systems of the major nations of Asia with an emphasis upon nationalism, political processes and institutions.

Prerequisite: Political Science 100 or permission of the instructor.

350. Introduction to the Legal System. (4-0-4) Su, S.

Judicial institutions and processes with emphasis upon the selection of judges, judicial decision making, and proposals for reform of the judiciary.

Prerequisite: Political Science 110 or permission of the instructor.

364. Impact of Urbanism and Metropolitanism on State and Local Government.

(4-0-4) Su, F.

An examination of the effects of urbanism and metropolitanism on state and local governments in the United States.

Prerequisite: Political Science 260 or permission of the instructor.

371 (366). Political Parties and Elections. (4-0-4) F.

An examination of the structure, function, and role of political parties in the United States.

Prerequisite: Political Science 110 or permission of the instructor.

372 (365). Political Behavior. (4-0-4) W.

An analysis of individual and group political behavior with an emphasis upon current research.

Prerequisite: Political Science 110 or permission of the instructor.

373 (367). Interest Groups. (4-0-4) S.

An analysis of the role and techniques of labor, business, agrarian, ethnic and other groups in the political process.

Prerequisite: Political Science 110 or permission of the instructor.

374 (369). The Legislative Process. (4-0-4) S.

An examination of the institutional structures and functions of legislative bodies.

Prerequisite: Political Science 111 or permission of the instructor.

399. Summer Study in Ireland. (0-0-9) Su.

Independent research in political science. Six weeks of residence in the Republic of Ireland will be required.

Prerequisite: Junior or senior standing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**450. International Law. (4-0-4) (Omitted 1970-71.)**

An analysis of the historical bases and current trends in international law and its role in current world politics.

Prerequisite: Political Science 220 or permission of the instructor.

451. The Supreme Court and the Federal System. (4-0-4) F.

An analysis of Supreme Court decisions on judicial review, federalism, powers of Congress, powers of the President, contracts, commerce, taxation.

Prerequisite: Political Science 110, 111, 350 or permission of the instructor.

452. The Supreme Court and Civil Rights. (4-0-4) Su, W.

An analysis of the history, the present status and the future prospects of civil liberties as interpreted by the Supreme Court.

Prerequisite: Political Science 110, 111, 350 or permission of the instructor.

453. The Judicial Process. (4-0-4) S.

An analysis of the behavior of judicial bodies with an emphasis upon recent behavioral research in the area of judicial decision-making.

Prerequisite: Political Science 110, 111, 350 or permission of the instructor.

460. Public Administration: Organization and Process. (4-0-4) Su.

A study of the dynamics of organization origin and policy development; a survey of contemporary theory and its significance.

Prerequisite: Political Science 240 or permission of the instructor.

461. Statistics and Research Techniques in the Behavioral Sciences. (4-0-4)

Programmed as Social Science 461.

475. Methods of Political Analysis. (4-0-4) W.

The evolution of concepts of political analysis; types of political analysis; the formation of concepts, hypotheses, theories and research problems.

Prerequisite: Twelve quarter hours of Political Science or permission of the instructor.

480. Politics of the Emerging Nations. (4-0-4) Su.

A comparative survey of the politics, policies, and problems of the emerging nations in Africa, Asia, the Middle East, and Latin America.

Prerequisite: Political Science 100 and one 300-level course in comparative political systems or permission of the instructor.

490. Political Theory: Ancient and Medieval. (4-0-4) F.

The origins and evolution of major concepts in political thought from the time of Pericles through the Conciliar Movement.

Prerequisite: Twelve quarter hours of Political Science or permission of the instructor.

491. Political Theory: Renaissance and Modern. (4-0-4) W.

The study of political thought from the time of Niccolo Machiavelli through Karl Marx.

Prerequisite: Twelve quarter hours of Political Science or permission of the instructor.

492. Contemporary Political Theory. (4-0-4) S.

Contemporary concepts in Western political thought with an emphasis upon the development of communism, fascism and democracy.

Prerequisite: Twelve quarter hours of Political Science or permission of the instructor.

493. Latin American Political Theory. (4-0-4) (Omitted 1970-71.)

The sources and evolution of Latin American political thought with an emphasis upon contemporary ideologies of reform and revolution.

Prerequisite: Twelve quarter hours of Political Science or Latin American Studies major or permission of the instructor.

495. The Literature of Political Science. (2-0-2) W.

A comprehensive survey of selected works in the literature of Political Science.

Prerequisite: Sixteen quarter hours of upper division courses in Political Science.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500, 501. Administrative Internship. (0-8-4 each course)

A student will serve as an intern in a federal, state, county, municipal or party organization or agency appropriate to his area of concentration.

521. Contemporary Problems in International Politics. (4-0-4) Su, W.

An analysis of problems in international politics since World War II.

Prerequisite: Political Science 220, 320 or permission of the instructor.

530. Seminar in Western Political Systems. (4-0-4) Su, S.

An analysis of selected topics in the political processes and structures of Western nations.

Prerequisite: Twelve quarter hours in comparative political systems or international relations or permission of the instructor.

531. Seminar in Political Modernization. (4-0-4) F.

An analysis of selected topics relating to the political processes and structures of the developing nations.

Prerequisite: Twelve quarter hours in comparative political systems or international relations or permission of the instructor.

540 (563). Seminar in Public Administration. (4-0-4) F.

The environment of public administration, functions of the administrator, organizational theory and practice, personnel administration, administrative law.

Prerequisite: Political Science 240, 460 or permission of the instructor.

556 (570). Contemporary Constitutional Development. (4-0-4) S.

A case-book approach to an analysis of the influence of the Supreme Court and the development of constitutional law.

Prerequisite: Political Science 350, 451 or 452, 453 or permission of the instructor.

562. Seminar in Urban Development. (4-0-4) W.

An analysis of the patterns of development of American cities with an emphasis upon the political ramifications of urban areas.

Prerequisite: Political Science 260, 460 or permission of the instructor.

571 (565). Seminar in Political Analysis. (4-0-4) F.

An analysis of the logic of scientific inquiry and the construction and carrying out of systematic research designs.

Prerequisite: Political Science 475 or permission of the instructor.

572. Seminar in Political Behavior. (4-0-4) Su, S.

An analysis of political behavior; the formation of opinions, roles and personality; democratic and authoritarian personality types.

Prerequisite: Political Science 372 or permission of the instructor.

590. Seminar in Contemporary Political Theory. (4-0-4) W.

An examination of the development of political theory since World War I with an emphasis upon individual research.

Prerequisite: Twelve quarter hours of Political Science.

595. Thesis. (Arr.-Arr.-4)

599. Independent Study. (Arr.-Arr.-4)

An intensive study in some specialized area of interest in Political Science; the student must present an individual study plan for approval.

Prerequisite: Twelve quarter hours of graduate courses in Political Science.

PSYCHOLOGY**UNDERGRADUATE COURSES****231. Introduction to Psychology. (4-0-4)**

A survey of methods, concepts, and principles in psychology.

234. Advanced General Psychology. (4-0-4)

A continuation of Psychology 231 with emphasis on a more detailed study of learning, perception, and motivation.

Prerequisite: Psychology 231.

261. Statistical Methods of Psychology. (4-0-4)

Application of statistical methods to behavioral data.

Prerequisite: Psychology 231. Not open to students who have taken or are enrolled in Mathematics 470 or 471.

281. Experimental Techniques I. (2-4-4) F, S.

An introduction to the use of experimental methods in psychology with exercise in psychophysics, animal learning and verbal learning.

Prerequisites: Psychology 231 and 261 or permission of instructor.

282. Experimental Techniques II. (2-4-4) Su, W.

A continuation and expansion of Psychology 281.

Prerequisites: Psychology 231 and 281.

331. Physiological Psychology. (4-0-4) F.

A survey of the physiological correlates of the psychological behavior in man and lower organisms.

Prerequisites: Psychology 231 and 281.

340. Methods of Teaching Psychology. (4-0-4) F.

Problems and procedures in preparing presentations to secondary students in the field of psychology; supervised simulated teaching experience.

Prerequisite: Psychology 231 plus sixteen quarter hours in psychology. Admission to teacher education.

350. Developmental Psychology. (4-0-4) Su, F, W.

Methods of research in child development and the effects of biological, social, and psycho-social factors on normal and deviant behavior.

Prerequisite: Psychology 231.

351. Applied Psychology. (4-0-4) F.

Psychological principles applied to the professions, industry, and retail business.

Prerequisite: Psychology 231.

352. Adolescent Psychology. (4-0-4)

The psychology of the adolescent in relation to: family; friends; the opposite sex; delinquent behavior; growth and development; attitudes; interests; values.

Prerequisite: Psychology 231.

353. Industrial Psychology. (4-0-4) Su, W, S.

Applications of the methods and principles of psychology to industrial situations.

Prerequisite: Permission of the instructor.

359. Theories of Personality. (4-0-4) W, S.

A comparison of the major theories of personality with emphasis on the methods used in theory validation.

Prerequisite: Psychology 231.

360. Psychological Measurements: Fundamental Principles. (4-0-4) Su, W, S.

Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests.

Prerequisite: Psychology 231.

362. Psychology of Learning. (4-0-4) W.

Introduction into basic principles and concepts of learning with particular emphasis on the application to problems of human learning.

Prerequisite: Psychology 231. This course does not substitute for Education 332.

390, 391, 392. Independent Study in Psychology. (Arr.-Arr.-4 each course) F, W, S.

Admission and assignment of problems by arrangement. Laboratory, reading, and weekly conference.

Prerequisite: Permission of the instructor.

425. History and Systems of Psychology. (4-0-4) F.

A survey of contemporary systems and the history of psychology as an experimental science.

Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**450. Psychology of Exceptional Children. (4-0-4) Su, W, S.**

Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal.

Prerequisite: Psychology 231.

451. Abnormal Psychology. (4-0-4) Su, W, S.

An examination of etiology, diagnosis, treatment and prevention of neuroses, psychoses, and psychosomatic disorders.

Prerequisite: Psychology 231.

452. Psychological Measurements: Intelligence Testing. (4-0-4) Su, F.

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisites: Psychology 231 and 360.

455. Mental Hygiene. (4-0-4)

Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.

Prerequisite: Psychology 231.

457 (447). Social Psychology. (4-0-4) Su, W, S.

A study of individual behavior and psychological processes in social settings. Empirical research is emphasized.

Prerequisite: Psychology 231.

462. Theories of Learning. (4-0-4) S.

A survey and comparison of theories of learning.

Prerequisite: Psychology 362 or permission of the instructor.

RUSSIAN

(See Foreign Languages)

SOCIAL SCIENCE**UNDERGRADUATE COURSES****340. Methods and Materials in the Social Studies in the Secondary School. (4-0-4)**

Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies.

Prerequisite: Admission to teacher education and junior standing.

440, 441. Contemporary Problems. (Topics to be determined.) (4-0-4 each course) Su.**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****461. Statistics and Research Techniques in the Behavioral Sciences. (4-1-4) S.**

Basic methods of statistical research, including measures of central

tendency, dispersion, normal and binomial distribution, correlation, sampling, etc.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

540. Problems in Teaching Social Studies. (Arr.-Arr.-2, 3, or 4)

Intensive study of special problems and trends in the social studies curriculum and improved teaching techniques.

Prerequisite: Teaching experience in the social studies or permission of the instructor. May be taken more than once with permission of the division head.

SOCIOLOGY

UNDERGRADUATE COURSES

271. Principles of Sociology. (4-0-4)

Study of basic sociological concepts; and social processes; structural and functional analysis of social groups.

272. Social Problems and Social Trends. (4-0-4)

Analysis of the nature of social problems, theories, deviant behavior; social disorganization; adjustment mechanisms and social control.

Prerequisite: Sociology 271.

360. Introduction to Social Work. (4-0-4) F, S.

A survey of principles, techniques, and fields of social work.

Prerequisite: Sociology 271.

362. Demography. (4-0-4) W.

A descriptive and theoretical analysis of the dynamics of population with emphasis on population trends.

Prerequisite: Sociology 271.

365. Social Systems and Social Roles. (4-0-4) S.

Social psychological theories; social status and social roles; application of role theories in the study of socialization and personal adjustment.

Prerequisite: Sociology 271.

366. The Sociology of Religion. (4-0-4) S.

Study of the development of religious and functional significance of beliefs and rituals.

Prerequisite: Sociology 271.

368. Public Opinion and Propaganda. (4-0-4) F.

Analysis of the fundamentals of communication, the opinion making process, and methods of opinion and attitude manipulation and measurement.

Prerequisite: Sociology 271.

370. Dynamics of Collective Behavior. (4-0-4) W.

Analysis of transitory phenomena, including publics, audiences, crowds, mobs, riots, and social movements.

Prerequisite: Sociology 271.

380. The Sociology of Rural Life. (4-0-4) W.

Study of patterns of land settlement, social interaction, social structure and function, and social problems unique to the rural way of life.

Prerequisite: Sociology 271.

381. The Sociology of Urban Life. (4-0-4) S.

Analysis of the social structure and function, social processes, and planning and development of the city.

Prerequisite: Sociology 271.

399. Summer Study in Ireland. (0-0-9) Su.

Independent research in sociology. Six weeks of residence in the Republic of Ireland will be required.

Prerequisite: Sociology 271 and junior or senior standing.

425. The Sociology of Education. (4-0-4) W.

Sociological analysis of the structure and function of educational institutions. Emphasis on social processes, patterns, and trends.

Prerequisite: Sociology 271.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**452. The Development of Sociological Thought. (4-0-4) W.**

This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry.

Restricted to majors and minors in sociology and social science.

455. The Community. (4-0-4) W.

Analysis of community structure and function, ecological patterns and processes, social problems, and social action.

Prerequisite: Sociology 271.

458. Work and Leisure in Mass Society. (4-0-4) W.

Study of patterns and theories of work and leisure; emphasis on impact of the industrial and technological revolution, and cybernation.

Prerequisite: Sociology 271.

461. Statistics and Research Techniques in the Behavioral Sciences. (4-0-4) F.

Programmed as Social Science 461.

470. Sociology of Medicine. (4-0-4) S.

Analysis of the relationship between pathology and social structure, function, and processes.

Prerequisite: Sociology 271.

472. Social Stratification. (4-0-4) F.

A descriptive and theoretical analysis of social stratification; study of the problems created by differential status, power, and social mobility.

Prerequisite: Sociology 271.

473. Marriage and the Family. (4-0-4)

Background of the modern family; the impact of culture and social change; personality factors involved in marriage; family disorganization.

Prerequisite: Sociology 271.

474. The Social Problems of Minority Groups. (4-0-4) W.

Racial and cultural minorities; causes and consequences of prejudice and discrimination; institutional patterns of intergroup relations; trends.

Prerequisite: Sociology 271.

475. Crime and Juvenile Delinquency. (4-0-4) Su, F.

The problems of crime and delinquency; etiological factors in crime and delinquency; prevention, penology, and rehabilitation.

Prerequisite: Sociology 271.

490, 491. Individual Problems in Sociology. (4-0-4 each) Su, F, S.

Analysis of selected current social problems with emphasis on sociological research techniques.

Restricted to majors in sociology and social science.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

503. Contemporary Sociological Theory. (4-0-4) F.

Consideration of the major contemporary sociological theories and conceptual orientations.

505. Methods of Quantitative Analysis. (4-0-4) F.

Study of the methods of inquiry, collection, and analysis of data in the behavioral sciences.

507. Sociological Research Methods. (4-0-4) W.

Emphasis on research methods and design, the selection of samples, and the collection, interpretation, and analysis of data.

510. Social Organization. (4-0-4) S.

Analysis of social groups in the context of social structure, latent and manifest functions, social processes, and the nature of recruitment.

520. Urban Social Problems. (4-0-4) W.

In-depth analysis of major social problems of the city. The generation of hypotheses and research proposals will be emphasized.

530. The School and the Community. (4-0-4) Su.

Analysis of the relationship between the school and the community; special emphasis on the decision process and the impact of social problems.

532. Schools and the Urban Crisis. (4-0-4) (Omitted 1970-71.)

Emphasis on the relationship between the problems of the school and the city and the role of the school as an instrument of social change.

540. Problems of the American Family. (4-0-4) S.

Investigation of the various theoretical orientations and methodological techniques in the study of family problems; analysis of patterns, trends, and adjustment mechanisms.

556. Sociological Aspects of Gerontology. (4-0-4) Su, S.

Review of current gerontological theories and research; consideration of structural and functional aspects of the social order as related to the aging process.

560. Sociological Analysis of Juvenile Delinquency. (4-0-4) Su.

Advanced study of the theory, treatment, and prevention of juvenile delinquency.

570. Sociological Analysis of Crime. (4-0-4) W.

A review of approaches to the study of crime and an analysis of theories of criminal behavior; penal theories, practices, and problems will be analyzed.

580. Social Change. (4-0-4) F.

Analysis of theories of social change; emphasis on the major forces in social change as revealed by historical examples.

595. Thesis. (Arr.-Arr.-8)**SPANISH**

(See Foreign Languages)

SPEECH**UNDERGRADUATE COURSES**

101, 102, 103. Applied Forensics. (1-0-1 each course)

Individual study and work in the various activities of the forensics program.

Prerequisite: Permission of the department head.

131. Speaking in Public. (4-0-4)

Fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view.

140. Parliamentary Law. (2-0-1)

The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.

230. Persuasion. (4-0-4)

Study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion as means of influencing beliefs and acts of others.

Prerequisite: Speech 131 or permission of department head.

232. Discussion. (4-0-4)

Study of the nature of discussion and bases of belief: subject-problems, preparation, process, leadership, participation, types and forms, and evaluation.

234 (332). Debate. (4-0-4) F, W, S.

Study of the responsibility of the advocate in investigation and analysis of evidence; structure of argument; reasoning and refutation.

Prerequisite: Speech 131 or permission of department head.

252. Introduction to Mass Communication (Broadcasting). (4-0-4) F.

Survey of the origin and growth of broadcasting, the social basis of radio, TV, and motion pictures and the physical nature of mass media.

301, 302, 303. Applied Forensics. (1-0-1 each course)

Individual study and work in the various activities of the forensics program.

Prerequisite: Permission of the department head.

320. Speech Criticism. (4-0-4) F.

Comparative study in which standards of judgment deriving from the social interaction of a speech situation are applied to public addresses to determine their immediate or delayed effect upon audiences and society.

Prerequisite: Speech 230.

330. Interview and Conference. (4-0-4)

The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and inter-personal situations.

Prerequisite: Speech 131.

340. Teaching Speech. (4-0-4) F, W, S.

Study of problems, methods, and materials in teaching oral communication;

teaching and directing co-curricular activities.

Prerequisites: Twenty quarter hours in speech. Admission to teacher education and junior standing.

352. Radio Production. (4-0-4) W.

Study of equipment and techniques involved in producing radio programs: announcing, scripting, writing, and producing.

354. Television Production. (4-0-4) S.

Study and practice of adapting demonstrative, documentary and dramatic communications to the television medium. Exercises using studio TV equipment.

400. Independent Study. (Arr.-Arr.-4)

Consideration of special problems in speech and speech education. Student presents individual study plan for researching history, theory, and/or practice of oral communication.

Prerequisite: Permission of department head.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452. Advanced Theory of Mass Communications. (4-0-4) S.

Survey of legal precedents of broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research.

453. General Semantics. (4-0-4)

Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.

470. Psychology of Speech. (4-0-4) Su, F.

Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.

480. Contemporary American Public Address. (4-0-4) F.

Study of competing points of view on a series of critical issues of the twentieth century.

490. Directing Forensic Activities. (4-0-4) W.

Designed to prepare those entering the field of speech education on the secondary and college levels to direct an extra curricular forensics program.

Prerequisites: Speech 232 and 234.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Problems in Speech. (Arr.-Arr.-4)

The study of and reports on a specific problem in speech. Student presents an individual study plan for researching history, theory, and/or practice of speech.

532 (471). Background of Rhetoric. (4-0-4) F.

A survey of Classical Theories of Rhetoric including the works of Plato, Aristotle, Cicero, and Quintilian.

540 (472). American Public Address. (4-0-4) W.

A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.

541. American Public Address. (4-0-4) S.

Study of public speaking in America from 1850 through the early twentieth century.

555. Research in Speech. (4-0-4) Su, F.

An introduction to research methods, bibliographical resources, and professional writing in the field of speech.

560. Deliberation of Human Problems. (4-0-4) Su, W.

Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems.

562. Modern Rhetorical Theory. (4-0-4) W.

Survey of theories of rhetoric from the eighteenth century to the present. Attention given to Ward, Blair, Campbell, Whatley, Curry, Burke, Flesch, Hall, Schramm, Weiner, Richards, Winans, Woolbert, Brigrance.

572. British Public Address. (4-0-4) S.

Study of British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.

595. Thesis. (Arr.-Arr.-4)

SPEECH PATHOLOGY AND AUDIOLOGY

UNDERGRADUATE COURSES

091. Communication I for International Students. Su, F. (No credit.)

An intermediate course dealing with speech intelligibility and listening comprehension.

Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.

092. Communication II for International Students. W. (No credit.)

An intermediate course dealing with reading and writing skills.

Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.

093. Communication III for International Students. S. (No credit.)

An advanced course dealing with oral and written skills necessary for students to profit from basic English and speech courses.

Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.

254. Structure and Function of the Speech and Hearing Mechanics. (4-0-4) F.

Basic neurologic, anatomical and physiologic concepts. Students observe in the clinic.

255. Voice Science. (4-0-4) W.

Applies basic acoustical and physiological information to normal speech: speech sounds, pitch, loudness, quality, and rate. Students observe in the clinic.

260. Speech Pathology. (4-0-4) Su, S.

A study of the pathology, etiology and treatment of articulatory, voice, hearing, stuttering, and organically based speech disorders.

262. Childhood Development of Speech. (4-0-4) S.

Normal development and measurement of spoken language abilities in children.

263 (451). Evaluation and Therapy. (4-0-4) S.

Training in specific diagnostic techniques for speech disorders; planning specific corrective techniques. Students observe in the clinic.

Prerequisite: Speech Pathology and Audiology 260.

362. Language Disorders. (4-0-4) Su, F.

Evaluation, and correction for language disorders associated with developmental delay C.N.S. involvements, and cultural deprivation.

Prerequisites: Speech Pathology and Audiology 260, 262, 263, or permission of the instructor.

402 (452). Voice and Articulation Disorders. (4-0-4) F.

Nature, causes and treatment of voice and articulation disorders.

Prerequisites: Speech Pathology and Audiology 260, 263.

403 (453). Stuttering. (4-0-4) W.

Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated.

Prerequisites: Speech Pathology and Audiology 260, 263.

405 (455). Audiometry and Hearing Aids. (4-0-4) F.

Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests.

Prerequisites: Speech Pathology and Audiology 260, 263.

406 (456). Audiology. (4-0-4) W.

Speech and psychological problems of the deaf and hard of hearing; techniques in lip reading and speech rehabilitation.

Prerequisites: Speech Pathology and Audiology 260, 263, 405.

408 (458). Organic Disorders of Speech. (4-0-4) S.

Etiology and correction of organic disorders of speech; cleft palate, cerebral palsy, aphasia, and laryngectomy.

Prerequisites: Speech Pathology and Audiology 260, 263, 402.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**457. Clinical Practice. (Arr.-Arr.-1 to 4)**

Supervised work with a variety of speech and hearing defects; thirty clock hours per quarter hour's credit.

Prerequisites: Speech Pathology and Audiology 260, 263.

460. Speech Correction for the Classroom Teacher. (4-0-4) W, S.

Classification, incidence, prevention, and classroom management of defective speech and nature of speech correction services.

495, 496. Independent Study. (Arr.-Arr.-4 each course)

Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction.

Prerequisite: Permission of the instructor and the department head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

561. Introduction to Graduate Study in Speech Pathology and Audiology. (4-0-4) F.

Introduction to research methodology and experimental design.

Prerequisite: Permission of instructor.

562. Articulation Disorders. (4-0-4) F.

Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and correction are stressed.

Prerequisite: Speech Pathology and Audiology 402.

563. Stuttering. (4-0-4) F.

Advanced study of the problem; integration of prominent theories and treatment in stuttering; analysis of significant findings and trends in research on stuttering.

Prerequisite: Speech Pathology and Audiology 403.

564. Voice Disorders. (4-0-4) W.

Advanced study of etiology and correction of functional and organic voice problems. Voice pitch, quality, and intensity.

Prerequisite: Speech Pathology and Audiology 402.

565. Audiometry. (4-0-4) Su, F.

Advanced study of the assessment of hearing losses. Emphasis on a functional test battery, diagnostic problems, and hearing aid selection.

Prerequisite: Speech Pathology and Audiology 405.

566. Aural Rehabilitation. (4-0-4) S.

Advanced study of rehabilitation for the hard-of-hearing.

Prerequisites: Speech Pathology and Audiology 406, 565.

567. Advanced Clinical Practice. (Arr.-Arr.-1 to 4)

Supervised corrective work with clients with speech and/or hearing defects.

Prerequisite: Speech Pathology and Audiology 457.

568. Organic Speech Disorders. (4-0-4) Su, W.

Advanced study of cleft palate and cerebral palsy in children and adults; etiology, diagnosis, and correction of speech problems.

Prerequisite: Speech Pathology and Audiology 408 or permission of the instructor.

569. Speech Correction Problems in the Schools. (4-0-4) (Offered on demand.)

Problems in speech correction with school age children. Emphasis upon understanding the function of the school speech clinician.

Prerequisites: Speech Pathology and Audiology 260, Education 441, 442, 443, or permission of the instructor.

570. Research Procedures in Speech Science. (4-0-4) W.

Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology.

Prerequisite: Speech Pathology and Audiology 561.

572. Language Disturbances. (4-0-4) S.

Language patterns of children and adults with oral communication impairments. Emphasis on the diagnostic and corrective procedures.

Prerequisites: Speech Pathology and Audiology 260, 262, 408, Psychology 452, or permission of the instructor.

575, 576. Independent Study. (Arr.-Arr.-4 each course)

Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction.

Prerequisite: Permission of the instructor and the department head.

595. Thesis. (Arr.-Arr.-4)

THEATRE ARTS

UNDERGRADUATE COURSES

101, 102, 103. Theatre Practicum. (Arr.-Arr.-1 each course)

Individual work and study in the various activities of theatrical productions.

These courses may be taken more than once, but only three quarter hours of credit may be counted toward graduation.

132. Voice and Phonetics. (4-0-4)

A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.

133. Beginning Interpretation. (4-0-4)

Designed to introduce the student to the study of literature through the medium of oral performance, where the medium is itself a process of defining.

240. Introduction to the Theatre. (4-0-4)

A general introduction to theatrical and dramatic art.

244. Acting. (4-4-4) F, W, S.

A study of the methods of learning and teaching techniques for the actor.

May not register concurrently in Theatre Arts 445.

257. Technical Direction. (4-4-4) W, S.

Construction and painting of scenery properties; theory and technique and stage lighting.

281. Summer Theatre. (Arr.-Arr.-8 to 12) Su.

These courses are designed to give practical, comprehensive experience in theatre arts. Credit for 8 or 12 quarter hours may be earned in one summer.

333. Advanced Interpretation. (4-0-4) Su, F, S.

Interpretation of literature in traditional and experimental styles. Introduction to the aesthetics of Readers and Chamber Theatre.

Prerequisite: Theatre Arts 133 or permission of the instructor.

357. Scene Design. (4-4-4) F.

Consideration of the design sequence from analysis of the script to the completion of production drawings; practical experience.

Prerequisite: Theatre Arts 257, or permission of the instructor.

358. Design and History of Costume. (4-4-4) S.

History of Costume from the early Egyptians to the present day. Costume design for theatrical productions.

399. Summer Study in Ireland. (0-0-9) Su.

Independent research in Theatre Arts. Six weeks or residence in the Republic of Ireland will be required.

Open to juniors and seniors.

431. Children's Dramatics. (4-0-4) W.

Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.

445. Directing. (4-4-4) F, W.

The study and actual production of the play. Central emphasis is placed on directing.

May not register concurrently in Theatre Arts 244.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460. From Ritual to Romance: Theatre Art of Greece, Rome, and the Middle Ages. (2-2-4) F.****462. A Focus on Diversity: Theatre Art from the Renaissance to the Beginnings of Realism. (2-2-4) W.****464. Realism to Revolt: Theatre Art from the Art Theatre to Avant-Garde. (2-2-4) W.****481. Summer Theatre. (Arr.-Arr.-8 to 12) Su.**

The courses are designed to give practical, comprehensive experience in dramatic art. Credit for 8 or 12 quarter hours may be earned in one summer. Eight hours may be applied to a master's degree.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

595. Thesis. (Arr.-Arr.-4)**ZOOLOGY****UNDERGRADUATE COURSES****101. General Zoology. (2-4-4)**

A study of tissues, organs, systems, physiology, reproduction and embryonic development, followed by a survey of the animal kingdom.

Prerequisite: Life Science 100 or equivalent.

212. Vertebrate Zoology. (2-4-4)

The natural history of vertebrates including distribution, feeding habits, reproduction, economic importance, and classification.

Prerequisite: One course in zoology.

214. Comparative Anatomy of Vertebrates. (2-4-4) Su, F.

A study of structures and their evolutionary relationships in vertebrates. Based on laboratory work with typical forms.

Prerequisite: Two courses in zoology.

215. Embryology. (2-4-4) Su, W.

Development of vertebrate animals, including formation of germ cells, to maturity. Laboratory studies of frog, chick and pig.

Prerequisite: Twelve quarter hours of zoology.

225. Anatomy. (0-6-4)

A study of osteology from human bones and muscles by dissection of the cat. Emphasis on understanding body movement.

Prerequisite: Life Science 100; Zoology 101 and sophomore standing recommended.

327. Parasitology. (2-4-4) Su, F.

Means of identification, life histories, and methods of control of the more common animal parasites, including those of man.

Prerequisites: Zoology 101 and one other zoology course.

336. Genetics. (2-4-4)

Basic laws of heredity and variation; experiments demonstrating the mechanisms of heredity; cytogenetics; modern concept of gene action.

Prerequisite: Twenty quarter hours of biological science or junior standing.

338. Elementary Entomology. (2-4-4) Su, F.

A study of insects common in the local environment. Means of recognition and life-history studies are stressed.

Prerequisite: Two courses in biological science. Open only to elementary education majors.

341, 342. Independent Study. (Arr.-Arr.-4 each course)

An outline of the proposed work must be approved prior to registration.

Prerequisite: Twenty quarter hours of zoology and permission of instructor and department head; Zoology 450 recommended.

343, 344, 345. Entomology. (2-4-4 each course) 343-Su, F; 344-W; 345-S.

The morphology, classification, ecology and economic importance of insects. Methods of collection and specimen preparation are included.

Prerequisite: Twelve quarter hours of zoology; Zoology 343 is prerequisite for 344 or 345.

346. Economic Entomology. (2-4-4) S.

Life histories and control methods of common insect pests found in Illinois.

Prerequisite: Zoology 343.

347. Fisheries Management. (2-4-4) Su, F.

Fundamentals of anatomy, classification, life histories and conservation of fish. Field work and study of local fishes are stressed.

Prerequisite: Twelve quarter hours of zoology.

348. Human Physiology. (2-4-4)

A study of the basic physiological principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration and digestion.

Prerequisite: One course in zoology.

349. Human Physiology. (2-4-4) S.

A continuation of 348 dealing with metabolism, excretion, endocrines, integumentary system, sense organs, reproductive organs.

Prerequisite: Zoology 348, or permission of instructor.

350. Principles of Physiology. (3-3-4) Su, W, S.

A study of basic principles underlying the functions of protoplasm and organ systems.

Prerequisite: One course in zoology. Chemistry requirement should be completed.

399. Summer Study in Ireland. (Arr.-Arr.-9) Su.

Independent research. Six weeks of residence in Republic of Ireland required. Participant and project must be approved by departmental committee.

Open to juniors and seniors with zoology major or minor.

445. Cytology-Histology. (2-4-4) Su, F, S.

The microscopic structures and functions of cytoplasmic, nuclear and membrane components of cells, and detailed study of tissues.

Prerequisite: Twelve quarter hours in zoology. Organic Chemistry recommended.

449. Studies in Zoology. (2-0-2) F, W, S.

A seminar in current zoological literature.

Prerequisite: Twelve quarter hours of zoology.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**450. Methods in Biological Research. (2-0-2) F.**

The principles of biological research, including review of literature, defining and organizing problems, and effective presentation of data.

Prerequisite: Junior standing.

451. Microtechnique. (2-4-4) Su, W, S.

Methods and practice in the preparation of microscope slides of animal

tissues. A collection of slides may be made for later use in teaching.

Prerequisite: Twenty-four quarter hours of zoology.

452. Animal Behavior. (2-4-4) S.

Theoretical and experimental studies of the reactions of animals to various stimuli.

Prerequisite: Twenty-four quarter hours of zoology, or permission of the instructor.

453. Animal Ecology. (2-4-4) Su, S.

Animals and their physical and biotic environments; communities; populations; succession; distribution; adaptations.

Prerequisite: Twenty-four quarter hours of zoology, or permission of the instructor.

455. Ornithology. (2-4-4) Su, S.

The life histories, adaptations, and structure of birds. Emphasis upon migration, songs, nests and importance of our native species.

Prerequisite: Twelve quarter hours of zoology; Zoology 212 recommended.

456. Field Zoology. (2-4-4) Su, S.

An intensive course in the classification and natural history of animal life indigenous to this region, exclusive of insects, birds and fish.

Prerequisite: Twenty-four quarter hours of zoology; Zoology 460 recommended.

457. Wildlife Management. (2-4-4) F.

The principles of wildlife management with emphasis on terrestrial game animals; their ecology, life histories and conservation.

Prerequisite: Twelve quarter hours of zoology including Zoology 212; Zoology 453 and 455 recommended.

458. Limnology. (2-4-4) F.

The physical environment and biological communities involved in fresh water ecosystems.

Prerequisite: One year of chemistry; sixteen quarter hours of zoology.

460. Invertebrate Zoology. (2-4-4) S.

The phylogeny, morphology, physiology, ecology, geographical distribution and economic importance of invertebrate animals.

Prerequisite: Twenty-four quarter hours of zoology.

465. Herpetology. (2-4-4) S.

Studies on reptiles and amphibians.

Prerequisites: Zoology 212, 214.

470 (454). Animal Histology. (2-4-4) Su, S.

A microscopic study of animal tissues and organs; their origins and

functions; advanced microscopic techniques.

Prerequisite: Zoology 451 or permission of the instructor.

475. Mammalogy. (2-4-4) W.

A study of mammals with emphasis on classification, distribution, natural history and ecology.

Prerequisites: Zoology 212, 214.

480. Ichthyology. (2-4-4) W.

Advanced study of the evolution, anatomy, taxonomy and distribution of the fishes of the world.

Prerequisite: Twenty-four quarter hours of zoology.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. History of Biology. (4-0-4) W.

The development of biology from pre-history to date; contributions by various civilizations; the growth of specific fields.

Prerequisite: Twenty-four quarter hours of biological science.

521. Organic Evolution. (4-0-4) W.

The principles of, and evidence for, organic evolution; history of the development of theories, and of scientists' concern with the subject.

Prerequisite: Twenty-four quarter hours of zoology.

525. Protozoology. (2-4-4) Su, F.

The morphology, physiology, ecology and life histories of free-living and parasitic protozoa. Includes laboratory and field studies.

Prerequisite: Twelve quarter hours of zoology and twelve quarter hours of chemistry.

530. Nematology. (2-4-4) S.

A study of the taxonomy, morphology, physiology, ecology and culture of free-living and parasitic Nematoda.

Prerequisites: Twenty-four quarter hours of zoology; a course in organic chemistry.

535. Arthropodology. (2-4-4) F.

A study of arthropods exclusive of insects, with emphasis on terrestrial forms.

Prerequisite: Twenty-four quarter hours of zoology; Zoology 343 and 460 recommended.

540. Cell Physiology. (3-3-4) W.

A study of the fundamental physical and chemical processes which underlie cellular structure and function.

Prerequisites: Zoology 350 and one course in organic chemistry.

549. Paleozoology. (2-4-4) F.

Ancient organisms as biological entities; how techniques of biology and geology can be used to study them.

Prerequisites: Zoology 453, 460, or permission of the instructor.

550. Ornithology. (2-4-4) Su.

The study of structure, habits, life histories, migrations, identification, and conservation of birds. Both field and laboratory work.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Local Fauna. (2-4-4) (Omitted 1970-71.)

Methods of collecting, preserving and identifying animals of this area. Includes a study of life histories of selected forms.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

555, 556, 557, 558. Advanced Zoology. (Arr.-Arr.-4 each course)

Courses designed to meet the needs of individual students who wish to do advanced work in some special field of zoology.

Prerequisite: Twenty-four quarter hours of zoology or the permission of the department head.

560. Advanced Systematics. (2-4-4) W.

A study of the methods and principles of animal taxonomy, including speciation and zoogeography.

Prerequisite: Twenty-four quarter hours of zoology.

561. Endocrinology. (2-4-4) S.

A study of the endocrine glands, the action of hormones, and the general features of the endocrine system.

Prerequisite: Twenty-four quarter hours of zoology, and at least one course in organic chemistry.

595. Thesis. (Arr.-Arr.-4)

FACULTY OF EDUCATION

EDUCATION

UNDERGRADUATE COURSES

123. Laboratory in Education. (2-0-2)

A laboratory course emphasizing directed observations and participation in classrooms with children of pre-school through junior high school ages.

Required of and restricted to freshmen and transfer students in the elementary and junior high school education curricula. Special sections designated for junior high school majors.

232. Human Growth, Development, and Learning. (4-0-4)

Physical, social, emotional, and intellectual growth and development of children and early adolescents.

Prerequisite: Psychology 231. Restricted to students in elementary, junior high, dietetics, recreation, and speech pathology curricula.

311. Directing Learning in the Junior High School. (4-0-4) F, W, S.

Administration, organization, and function of the junior high school; general methods planning, evaluation, guidance, and classroom management.

Prerequisites: Education 232 and admission to teacher education.

312. Instructional Media in the Junior High School. (4-0-4) F, W, S.

Reading instruction and introduction to educational media and audio-visual equipment.

Prerequisites: Education 232 and admission to teacher education.

313. Teaching Social Studies and Language Arts in the Junior High School. (4-0-4) W, S.

The objectives, methods, materials, and content with an emphasis upon correlation.

Prerequisites: Junior standing; Education 311 and admission to teacher education.

314. Teaching Mathematics and Science in the Junior High School. (4-0-4) W.

The scope, sequence, and interrelationship of the mathematics and science curricula, including methods and materials.

Prerequisites: Junior standing; Education 311 and admission to teacher education.

324. Directing Learning in the Elementary School. (4-0-4)

Organization of instructional programs; planning learning experiences, evaluation, guidance, and classroom management; use of audio-visual equipment.

Prerequisite to student teaching. Prerequisites: Junior standing; Education 232 and admission to teacher education. Restricted to elementary and speech correction majors.

326. Child Development for the Nursery-Kindergarten Teacher. (4-0-4) F, W, S.

Factors influencing development of children 3½-8. Some child study techniques and their application.

Prerequisites: Education 232 and admission to teacher education.

327. Teaching Social Studies and Language Arts in the Elementary School. (4-2-4)

Objectives, techniques, and materials of social studies and language arts, excluding reading and children's literature; instruction in handwriting.

Prerequisites: Education 324 and admission to teacher education. Simultaneous enrollment with Education 328.

328. Developmental Reading in the Elementary School. (4-2-4)

Objectives, techniques, and materials of the basal reading program from kindergarten through junior high school; current trends in reading instruction.

Prerequisites: Education 324 and admission to teacher education. Simultaneous enrollment with Education 327.

329. Science in the Elementary School. (2-4-4)

Selection and development of units, demonstrations, and laboratory work.

Prerequisites: Eight quarter hours in biological science; Physical Science 100, 101; Education 324; admission to teacher education.

331. Laboratory in Secondary Education. (0-1-1)

Laboratory provides (1) participation experiences with pupils of junior and senior high ages and (2) chance for students to demonstrate growing competency in teaching.

Prerequisite: Psychology 231 and admission to teacher education. Must be completed prior to student teaching.

332. Educational Psychology. (4-0-4)

Individual growth and development with emphasis upon the secondary student, learning theories, measurement and evaluation.

Prerequisites: Junior standing; Psychology 231 and admission to teacher education.

333. The Instructional Task in the Secondary School. (4-0-4)

General methods in planning classroom control, evaluation, guidance; current curricular trends; reading in study skills and instructional materials.

Prerequisites: Education 332 and admission to teacher education.

426. Kindergarten Education. (4-0-4) F, W, S.

Programs, materials, and equipment for nursery school and kindergarten. Prerequisite to teaching practicum in kindergarten.

Prerequisites: Education 324 and admission to teacher education.

440. Teaching Practicum in Secondary School. (0-3-3)

441, 442, 443, 444. Teaching Practicum in the Elementary or Secondary School. (Arr.-Arr.-4 each course)

Twelve quarter hours required for elementary majors. Secondary majors refer to page 101. Secondary majors must take 4 quarter hours preferably 8 quarter hours, in major field.

Prerequisite: See Admission to Teaching Practicum.

445. Philosophy and History of Education. (4-0-4)

The philosophical and historical foundations of leading educational theories as they treat human nature, objectives, and processes of education.

Prerequisite: Admission to teacher education.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460. Studies in Education. (4-0-4)**

Problems in secondary education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem.

Prerequisite: Twelve quarter hours in education and psychology.

470. Gifted and Creative Students. (4-0-4) Su.

A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.

475. Education in the Inner City School. (4-0-4) Su, S.

A course in methods, materials, characteristics and values basic to the teaching of students who attend the inner city school.

Prerequisite: Sixteen quarter hours in education and psychology, or permission of the instructor.

477. The Junior High School. (4-0-4) Su, F.

Study of historical development, current practices, problems, and trends in the junior high school education.

Prerequisite: Education 232 and admission to teacher education.

482. School-Community Relations. (4-0-4) Su.

Procedures and practices in developing a good school-community relations program.

Prerequisite: Sixteen quarter hours in education and psychology, or permission of the department.

485. School Law. (4-0-4) Su, W.

A course designed to develop an understanding of the basic legal factors related to the school.

Prerequisite: Twelve quarter hours in education and psychology or permission of the department.

487. Introduction to Audio-Visual Education. (4-0-4)

Theory and principles for use of audio-visual materials in teaching.

Prerequisite: Twelve quarter hours in education and psychology.

488. Preparation and Use of Instructional Materials. (4-0-4) Su, W.

Production of locally prepared audio-visual materials using techniques of reproduction by pictorial or graphic means.

Prerequisite: Twelve quarter hours in education and psychology.

490. Principles and Techniques of Guidance. (4-0-4)

An introductory course, principles and purposes underlying guidance activities.

Prerequisite: Twelve quarter hours in education and psychology. Required of students in family services curriculum.

491. Guidance in the Elementary School. (4-0-4) Su, F.

A study of principles and techniques of guidance services in the elementary school.

Prerequisite: Twelve quarter hours in education and psychology.

492 (577). Residence Hall Personnel Work. (4-0-4) S.

A study of the functions, management, and supervising of university residence halls including administrative, business, counseling, and teaching duties.

Prerequisite: Twelve quarter hours in education and psychology.

495. The Mentally Handicapped Child. (4-0-4)

A study of the characteristics of mentally handicapped children.

Prerequisites: Education 232 or Psychology 350, or permission of the instructor.

496. Educational Procedures for Educable Mentally Handicapped Children. (4-0-4)

Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children.

Prerequisite: Education 495 or permission of the instructor.

497. The Child with Learning Disabilities. (4-0-4)

This course will deal with the nature and characteristics of pupils with learning disabilities. Pupils with epilepsy, aphasia, and brain damage will be studied.

Prerequisites: Admission to teacher education. Education 232 or an acceptable substitute.

498. The Diagnosis of Learning Disabilities. (4-0-4)

The study of the means and methods of diagnosing learning disabilities

of children which interfere with their learning processes.

Prerequisites: Admission to teacher education. Education 497, or permission of instructor.

499. Remediation of Learning Disabilities. (4-0-4)

This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching; curriculum needs, and classroom management of such children will be studied.

Prerequisites: Admission to teacher education. Education 497, 498, or permission of instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. Occupational Cooperative Education. (Arr.-Arr.-4) Su.

A study of part-time, on-the-job education utilizing the resources of the community and the school.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

506. Administration and Supervision of Occupational Education. (Arr.-Arr.-4) Su.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

507, 508, 509. Seminar in Occupational Education. (Arr.-Arr.-4 each course) Su.

Intensive study of contemporary problems, issues, trends and developments in occupational education and technology.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

520. Television in Education. (4-0-4) Su.

Methods and techniques of television production, direction, and operation covering open and closed-circuit television. (No substitute course may be used.)

521. Audio-Visual Systems. (4-0-4) S.

Development of Audio-Visual Systems—program learning, random-dial-access, computer-assisted instruction, etc.—in the teaching-learning situation.

522 (484). Photography in Audio-Visual Education. (4-0-4) Su, F.

Photographic techniques for making materials for classroom instruction.

Emphasis upon prints, color slides and large transparencies.

Prerequisite: Permission of the instructor.

523. Organization and Supervision of Audio-Visual Programs. (4-0-4) Su, W.

Problems of organizing and supervising of media in the individual school, district, county and/or university.

527. Reading Instruction in the Junior and Senior High School. (4-0-4) Su, W.

A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs.

Prerequisite: Sixteen quarter hours in education and psychology.

528. Problems in the Teaching of Reading. (4-0-4)

A study of the types and causes of reading difficulty; methods of diagnosis and remediation for teachers, clinicians, and supervisors.

Prerequisite: Sixteen quarter hours in education and psychology, including Education 328.

540 (459). Advanced Educational Psychology. (4-0-4) Su, W.

Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices.

Prerequisite: Twelve quarter hours in education and psychology.

541, 542. Educable Mentally Handicapped Practicum. (4-0-4 each course) Su.

Supervised practicum with pupils who are designated as educable mentally handicapped or having learning difficulties.

Prerequisite: Education 496.

543. Measurement and Evaluation. (4-0-4) Su.

Nature and use of standardized and teacher-made tests. Selection, administration, and use.

Prerequisite: Eight quarter hours in human growth and development, and/or psychology.

544. Educational Statistics. (4-0-4) Su, W.

Fundamentals of statistics and their application.

Prerequisite: Twelve quarter hours in education and psychology.

549. Special Educational Problems. (Arr.-Arr.-1 to 4)

Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature.

Prerequisite: Permission of the instructor.

550. Principles of Curriculum Development. (4-0-4)

Basic determinants of curriculum; factors influencing curricular design;

current trends, including experimental programs and practices.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

551. Social Foundations of Education. (4-0-4)

The school in society; effects of cultural patterns, social classes, community organizations, and some social problems.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

552. Understanding the Individual. (4-0-4)

Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality.

Prerequisite: Twelve quarter hours in education and psychology. Credit applicable to Group I of the requirements for the degree M.S. in Ed.

553. Philosophy of Education. (4-0-4) Su, W.

A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

554. History of Educational Thought. (4-0-4) Su, S.

Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

555. Comparative Education. (4-0-4) (Omitted 1970-71.)

Selected educational systems of developed and emerging nations in their cultural settings.

557. Early Childhood Education. (4-0-4) F.

Consideration given to each segment of the learning continuum (ages 3½ to 8) including curriculum design, articulation, evaluation, and administration.

Prerequisite: Teaching experience and permission of the instructor.

558. Child Study for the Elementary School Teacher. (4-0-4) Su, W.

Factors influencing behavior of the elementary school child. Techniques to secure and use data to improve classroom teaching.

Prerequisites: Education 232 or equivalent. Sixteen quarter hours in education and child psychology. Limited to experienced teachers working with children.

559. Seminar in Nursery-Kindergarten Education. (4-0-4) Su, S.

An analysis of curriculum issues and problems in nursery-kindergarten education. Students will select individual problems to study.

Prerequisite: Teaching experience and permission of the instructor.

560. Introduction to Research in Education. (4-0-4)

Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research.

Prerequisite: Sixteen quarter hours in education and psychology.

561. Advanced Developmental Reading. (4-0-4) Su, F, S.

A study of the nature of reading instruction in the elementary school; approaches, goals, materials, techniques, and evaluation procedures.

Prerequisite: Education 328 or equivalent.

562. Remedial Reading Practicum. (Arr.-Arr.-4) Su, S.

Supervised practice in diagnosing, treating, and reporting on cases of reading disability.

Prerequisite: Education 528 and permission of instructor. Students may enroll a second time for credit.

563. Supervision and Curriculum in Reading. (4-0-4) W.

A study of the total school program for reading instruction; an analysis of the role of the reading supervisor or consultant.

Prerequisite: Eight quarter hours in reading instruction.

564. Teaching and Supervision of Social Studies in Elementary Schools. (4-0-4) Su, W.

A study of the objectives, content, materials, and techniques used in organizing, supervising, and improving the social studies program.

565. Language Arts in the Elementary School. (4-0-4) Su, F.

A critical analysis of language arts instruction with emphasis on the organization of the program, content, materials, and procedures.

Prerequisite: Twelve quarter hours in education and psychology.

566. The Science Curriculum in the Elementary School. (4-0-4) Su, F.

Scope and sequence of the elementary science curriculum; new experimental curricula; selection of materials and equipment.

Prerequisites: Eight quarter hours of biological science, eight quarter hours of physical science, and Education 329 or permission of the instructor and the Dean of the Graduate School.

567. Advanced Laboratory in Elementary Education. (Arr.-Arr.-4) Su.

A study of curriculum problems, trends, and developments using observations and demonstrations and analysis of instructional media and pertinent research.

Prerequisite: Eight quarter hours in graduate courses in elementary education. Students may enroll a second time for credit.

568. Guiding Student Teaching. (4-0-4) Su, F.

Aspects of teacher education, particularly professional laboratory experiences. Limited to persons engaged in student teaching programs.

569. Seminar in Elementary Science Education. (4-0-4) Su, S.

An analysis of problems and trends in elementary and junior high science education. Student selection of problems with approval of the instructor.

Prerequisite: Education 566 or permission of the instructor.

570. Psycho-Social Development in Childhood. (4-0-4) S.

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours in education and psychology.

571. Psycho-Social Development of the Adolescent and Young Adult. (4-0-4) F.

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours in education and psychology.

572. Measurement Applied to Guidance. (4-0-4) Su, F, W.

A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques used in guidance programs.

Prerequisite: Sixteen quarter hours in education and psychology.

573. Play Therapy. (4-0-4) Su, S.

The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment.

Prerequisite: Education 574.

574. Personality Dynamics. (4-0-4) Su, F, S.

A study of the nature of personality and of various theories of personality with attention given to techniques of personality evaluation.

Prerequisite: Sixteen quarter hours of education and psychology.

576. Student Personnel Work in Higher Education. (4-0-4) W.

A study of personnel functions in higher education including admissions, discipline, student activities, housing, scholarship programs.

Prerequisite: Twelve quarter hours in education and psychology.

578. Theories of Aptitudes and Abilities. (4-0-4) Su.

A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior.

Prerequisite: Education 592 or permission of department.

579. Individual Study in Education. (Arr.-Arr.-2 or 4)

Intended to permit a student to pursue more intensively various aspects of the area of his special interest.

Prerequisite: Permission of the department.

580 (480). School Organization and Administration. (4-0-4) Su, F, S.

Educational administration in social and historical perspective; authentication and application of principles of administration.

Prerequisite: Twelve quarter hours in education and psychology.

581. School Supervision—A Group Process. (4-0-4) Su, F, S.

Origin and development of the supervisory function.

Prerequisite: Education 550.

583. Administration and Supervision of the Elementary School. (4-0-4) Su, S.

Develops interrelationship of pupils, staff and patrons in the elementary school.

Prerequisites: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. program.

584. Administration and Supervision of the Secondary School. (4-0-4) Su, S.

Develops an understanding of the role of the principal of the secondary school.

Prerequisite: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.

585. School Plant Planning. (4-0-4) W.

Relates school plants to the instructional program and community resources.

Prerequisite: Education 580 or equivalent.

586. School Finance. (4-0-4) S.

A study of the support of public school and the expenditures of school funds.

Prerequisite: Education 580 or equivalent.

587. Personnel Administration: Teacher-Administrator Relationships. (4-0-4) F.

Principles and practices of personnel administration in educational institutions.

Prerequisite: Education 580 or equivalent.

588. School Business Administration. (4-0-4) (Omitted 1970-71.)

A study of the principles of financial management as they relate to the administration of funds in public education at the local level.

Prerequisite: Education 586 or equivalent.

589 (489). Seminar in Audio-Visual Education. (4-0-4) Su, W.

Special study on problems of production, administration and utilization of audio-visual materials in schools.

Prerequisite: Education 487, Education 488 or equivalent.

590. Current Practices and Problems in Counseling. (4-0-4) Su, W, S.

A course in theory and practices of counseling with emphasis upon the duties of the school counselor.

Prerequisite: Education 490 or 491.

591. Organization and Administration of Guidance and Personnel Services. (4-0-4) Su, S.

Principles and practices in organization and administration of guidance programs, public relations, integration of guidance services and curriculum.

Prerequisite: Education 490 or 491.

592. Occupational, Educational, Personal, and Social Information. (4-0-4) Su, W.

Sources, evaluation, and use of occupational, educational, personal, and social information. Job requirements and training facilities.

Prerequisite: Education 490 or 491.

593. Counseling Practicum. (4-0-4)

Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest.

Prerequisites: Education 590, and permission of the department.

594. Principles and Techniques of Group Guidance. (4-0-4) Su, S.

A study of the principles and their application in the area of group guidance including techniques of group discussion, sociometrics, and role-playing.

Prerequisite: Education 590.

595. Thesis. (Arr.-Arr.-4)**596. The Junior College Movement. (4-0-4) Su, F.**

The junior college in the United States with attention to problems of philosophy, curriculum, and operation of junior colleges in Illinois.

Prerequisite: Sixteen quarter hours in education and psychology or permission of the instructor.

597. Seminar in Guidance. (4-0-4) Su, W.

Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field.

Prerequisite: Permission of the department.

598. Practicum in Student Personnel Work in Higher Education. (Arr.-Arr.-4 or 8) F.

Supervised practice in student personnel work according to the student's background and preferences.

Prerequisites: Education 576, and permission of the department.

600. Problems in School Administration. (4-0-4) Su, W.

An advanced seminar in problems of significance to educational administration.

Prerequisites: At least twelve quarter hours in administration and supervision plus completion of Group I courses.

601, 602. The Field Experience in Administration. (Arr.-Arr.-4 each course)

The field experience is planned by the student's committee and the supervising administrator.

Prerequisite: Admission to candidacy for the degree Ed.S. and approval of the department.

603. Seminar: Theory and Research in Educational Administration. (4-0-4) Su.

Development of theories of administration in general and of educational administration in particular.

Prerequisites: Education 560 and Education 580 or equivalent plus the consent of the instructor.

604. Seminar: Interdisciplinary Approach to Educational Administration. (Arr.-Arr.-4) F.

Examines the contributions of the Behavioral Science and the Humanities to the study and practice of Educational Administration. Provides an opportunity to integrate material derived from related area courses.

Prerequisites: Admission to Ed.S. Program and completion of at least 12 quarter hours in related academic disciplines. Permission of the instructor.

609. Administration in Higher Education. (4-0-4) Su, W.

A study of the scope, nature, and function of administration in higher education.

Prerequisites: Equivalent of the master's degree and/or permission of the department.

690. Field Study in Guidance. (Internship.) (Arr.-Arr.-4 or 8) F, W, S.

Supervised experience in all services normally considered a part of the guidance program.

Prerequisite: Education 593 and approval of the department.

SCHOOL OF BUSINESS

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ACCOUNTING**230. Principles of Accounting I. (4-0-4)**

An introduction to the basic concepts of financial accounting.

Not open to freshmen.

231. Principles of Accounting II. (4-0-4)

A continuation of Accounting 230.

Prerequisite: Accounting 230.

232. Principles of Accounting III. (4-0-4)

Uses of accounting data for managerial planning and control.

Prerequisite: Accounting 231.

354. Intermediate Accounting I. (4-0-4) Su, F, W.

Review of fundamental processes. Accounting for current assets, current liabilities, investments, plant and equipment.

Prerequisite: Accounting 232.

355. Intermediate Accounting II. (4-0-4) F, W, S.

Accounting for long-term debt, stockholders' equity, and intangible assets. Analysis of financial statements, price-level changes, and funds-flow.

Prerequisite: Accounting 232.

356. Advanced Accounting Problems I. (4-0-4) Su, S.

Special accounting problems related to partnerships, corporate business combinations, and governmental units.

Prerequisite: Accounting 354, 355.

357. Advanced Accounting Problems II. (4-0-4) Su, S.

Special accounting problems related to joint ventures, receivership and liquidation, estates and trusts, compound interest, and corporate combinations.

Prerequisites: Accounting 354, 355.

360. Cost Accounting. (4-0-4) Su, F, W.

An introduction to the usefulness and limitations of cost accounting with emphasis upon cost control and cost analysis.

Prerequisite: Accounting 232.

490. Internship in Accounting. (Arr.-4)

Employment experience in public, industrial or governmental accounting, for one quarter, in a firm approved by the Head of the Department of Accounting.

Prerequisite: Permission of the Head of the Department of Accounting and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Accounting Systems. (4-0-4) W.**

An introduction to basic concepts and standards of accounting system design.

Prerequisite: Accounting 360 or equivalent.

454. Budget Planning and Control. (4-0-4) W, S.

Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management.

Prerequisite: Accounting 232 or permission of the Head of the Department of Accounting.

461. Federal Income Tax Accounting. (4-0-4) Su, F, W.

Tax Accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and concepts for individuals.

Prerequisite: Accounting 232.

462. Advanced Cost Accounting. (4-0-4) F, S.

Special topics will be covered in order to aid managers to select and reach their objectives.

Prerequisite: Accounting 360, or permission of the instructor.

464. Auditing Theory and Practice. (4-0-4) F, W.

The examination and verification of financial statements for the purpose of establishing their reliability.

Prerequisites: Accounting 354, 355, and permission of the Head of the Department of Accounting.

466. Advanced Federal Income Tax Problems and Research. (4-0-4) S.

Emphasis on partnership, corporation, fiduciary tax problems. Gift, estate, inheritance taxes. Corporate tax case research.

Prerequisite: Accounting 461.

467. C.P.A. Problems I. (4-0-4) F, W.

Accounting theory and practice on a professional level. Analysis and study of selected questions from C.P.A. examinations.

Prerequisite: Accounting 356.

468. C.P.A. Problems II. (4-0-4) S.

Auditing and accounting practice on a professional level. Analysis and study of selected questions from C.P.A. examinations.

Prerequisite: Accounting 356.

469. Advanced Auditing Theory and Practice. (4-0-4) S.

Theory and application of advanced techniques, special reports, ethics, legal responsibility, and their relation to the auditing standards.

Prerequisite: Accounting 464.

498. Independent Study. (Arr.-Arr.-4)

Individual study programs. The student will be assigned material from literature in accounting in cooperation with the department head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the Head of the Department of Accounting.

BUSINESS EDUCATION AND SECRETARIAL STUDIES**110. Typewriting. (4-0-4)**

Beginning touch typing instruction. Minimum speed requirement: twenty-five gross words a minute for three minutes.

No credit toward graduation for students who have had equivalent of one semester of typewriting instruction.

111. Typewriting, Continued. (4-0-4)

Development of skill in machine operation. Minimum speed requirement: thirty words a minute for five minutes.

Prerequisite: Business Education 110 or equivalent. No credit toward graduation for students who have had equivalent of two semesters of typewriting instruction.

112. Typewriting, Continued. (4-0-4)

The typewriter as a business communications tool. Minimum speed requirement: thirty-five gross words a minute for five minutes.

Prerequisite: Business Education 111 or equivalent. No credit toward graduation for students who have had equivalent of three semesters of typewriting instruction.

123. Shorthand. (4-0-4) F, W.

Beginning instruction in Gregg Shorthand, Diamond Jubilee Series. Principles, brief forms, and phrasing.

No credit toward graduation for students who have had equivalent of one semester of shorthand instruction.

124. Shorthand, Continued. (4-0-4) W, S.

Dictation from familiar material using Gregg Shorthand, Diamond Jubilee Series.

Prerequisite: Business Education 123 or equivalent. No credit toward graduation for students who have had equivalent of two semesters of shorthand instruction.

125. Shorthand, Continued. (4-0-4) F, S.

Vocabulary building. Introduction to transcription. Dictation from new material prepares the student for taking dictation in the business office.

Prerequisite: Business Education 124 or equivalent. No credit toward

graduation for students who have had equivalent of three semesters of shorthand instruction.

210. Advanced Typewriting. (4-0-4)

Advanced office projects. Minimum speed requirement: forty net words a minute for five minutes.

Prerequisite: Business Education 112 or equivalent.

211. Advanced Typewriting, Continued. (4-0-4) W, S.

Production under rigorous business standards. Minimum speed requirement: fifty net words a minute for five minutes.

Prerequisite: Business Education 210 or equivalent.

223. Advanced Shorthand. (4-0-4) F, W.

Transcription of business letters from dictated notes. Minimum speed requirement: eighty words a minute with 98 per cent accuracy.

Prerequisites: Business Education 125 or equivalent and Business Education 112 or equivalent.

224. Advanced Shorthand, Continued. (4-0-4) W, S.

Production standards in note taking and transcription. Minimum speed requirement: one hundred words a minute with 98 per cent accuracy.

Prerequisite: Business Education 223 or equivalent.

225. Secretarial Practice. (4-0-4) S.

Professional secretarial levels for business and the professions. Minimum speed requirement: one hundred twenty words a minute with 98 per cent accuracy.

Prerequisites: Business Education 224 or equivalent and Business Education 210 or equivalent.

300. Consumer Education. (4-0-4) F, W, S.

Factors affecting family financial management, including investments and savings; use of credit; insurance and taxes.

Team taught with Home Economics 300.

322. Business Machine Computation. (4-0-4)

Operation and application of adding and calculating machine processes to business and statistical computation.

323. Records Management and Office Communication. (4-0-4) F, W, S.

Records creation, use, retention, transfer, and disposal; dictation equipment, duplicating equipment, special-purpose typewriters, and card punch unit.

Prerequisite: Business Education 111 or equivalent.

340. Methods of Teaching Bookkeeping and the Basic Business Subjects. (4-0-4)

Specific teaching methods, content, textbooks and teaching materials,

and audio-visual aids in the bookkeeping and non-skill subjects.

Prerequisite: Admission to teacher education and junior standing.

342. Methods of Teaching Shorthand and Transcription. (4-0-4)

Specific teaching methods, content, textbooks and teaching materials, and audio-visual aids in the secretarial business subjects.

Prerequisite: Admission to teacher education and junior standing.

344. Methods of Teaching Typewriting and Office Practice. (4-0-4)

Specific teaching methods, content, textbooks and teaching materials, and audio-visual aids in the clerical business subjects.

Prerequisite: Admission to teacher education and junior standing.

**440. Supervised Experiences in School Business Management. (Arr.-Arr.-4)
F, W, S.**

School business practices are studied under the direction and supervision of a school business manager.

Prerequisite: Permission of the Head of the Department of Business Education and Secretarial Studies.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Office Management. (4-0-4) S.

Duties and responsibilities of the office manager and supervisor.

492. Organization and Operation of Vocational Business Education Programs. (4-0-4) Su, F.

Vocational office and distributive education programs as provided by the Vocational Education Act of 1963 and Amendments to that Act.

493. Teaching Techniques in Vocational Business Education. (4-0-4) W.

Vocational counseling, teaching, and supervision in reimbursable vocational classwork and part-time work experience programs.

494. Coordination Techniques in Vocational Business Education. (4-0-4) S.

Duties and responsibilities of the Office Occupations and Distributive Education coordinator in a reimbursable vocational program.

495 (490). Internship in Vocational Business Education. (Arr.-Arr.-4)

A minimum of 180 hours employment in a firm approved by the instructor; a training memorandum and approval prior to enrollment is required.

Prerequisite: Acceptance of the student by a business firm and by the instructor as evidenced by a training memorandum.

498. Independent Study. (Arr.-Arr.-4)

Student selects problem area in cooperation with the instructor, conducts program of organized research and reading, prepares written formal report.

Prerequisite: Senior or graduate standing with strong scholarship as

evidenced by cumulative grade point average and must have permission of the Head of the Department of Business Education and Secretarial Studies.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. Occupational Cooperative Education. (Arr.-Arr.-4) Su.

A study of part-time, on-the-job education utilizing the resources of the community and the school.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

506. Administration and Supervision of Occupational Education. (Arr-Arr.-4) Su.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

507, 508, 509. Seminar in Occupational Education. (Arr.-Arr.-4 each course) Su.

Intensive study of contemporary problems, issues, trends and developments in occupational education and technology.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

510. Theoretical Issues in Accounting. (4-0-4) Su.

An analysis of accounting concepts, viewed in an ideal framework. For teachers of business subjects having minimum of one year of accounting.

513. Contemporary Issues in Marketing. (4-0-4) (Omitted 1970-71.)

Current issues involved in the delivery of a standard of living. Reading and reporting on the literature of the field. For teachers of business subjects having little or no marketing background.

516. Contemporary Issues in Management. (4-0-4) (Omitted 1970-71.)

Current problems in the various areas of management and a study of new management techniques. For teachers of business subjects having little or no management coursework background.

519. Foundations of American Business. (4-0-4) (Omitted 1970-71.)

The historical development of American business and industry. The evolution of business practices and principles.

520. Practicum in Data Processing. (4-0-4) Su.

Nature and function of unit record with special emphasis on the development of teaching materials.

Not open to students with credit in Management 230 or 231.

570. Foundations in Business Education. (4-0-4) Su.

Philosophies and objectives of business education, evolution of the business curriculum, developments in business occupational education.

572. Problems in Business Education. (4-0-4) (Omitted 1970-71.)

Current issues and problems in vocational business education which arise from the particular needs and interests of the students.

573. Measurement and Evaluation in Business Education. (4-0-4) (Omitted 1970-71.)

Testing techniques and the construction of tests; statistical procedures necessary for test interpretation and use.

574. Improvement of Instruction in Bookkeeping and the General Business Subjects. (4-0-4) S.

Methods, techniques of teaching, development of materials, research in bookkeeping, record keeping, and general business courses.

575. Improvement of Instruction in Office Procedures and Data Processing. (4-0-4) F.

Methods and techniques of teaching, equipment and instructional materials, research in office procedures and data processing courses.

576. Improvement of Instruction in Shorthand and Secretarial Skills. (4-0-4) (Omitted 1970-71.)

Methods and techniques of teaching; instructional media, materials and equipment; research in shorthand and secretarial skill courses.

577. Touch Shorthand in the Secretarial Studies Curriculum. (4-0-4) Su.

Specific teaching techniques, initial mastery of the touch shorthand theory, and development of basic writing speeds at the keyboard of the shorthand machine.

Prerequisite: Basic ability in a system of manual shorthand. Laboratory fee to cover cost of machine rental and supplies.

578. Improvement of Instruction in Typewriting and Office Practice. (4-0-4) Su.

Methods and techniques of teaching; instructional media, materials, and equipment; research significant to the teaching of typewriter-related skills.

595. Thesis. (Arr.-Arr.-4)

Planning, design, and conduct of research with formal written report of research findings, conclusions, and recommendations.

MANAGEMENT

141. Business Correspondence. (4-0-4)

Practice in formulation and communication of business information.

Prerequisite: Business Education 110 or equivalent.

142. Introduction to Business. (4-0-4)

The general nature and functions of the business enterprise in society.

230 (330). Data Processing for Business. (4-0-4)

Modern information processing systems and equipment, includes electronic computers and punched card systems.

Prerequisite: Sophomore standing.

231. Computer Programming for Business. (4-0-4)

Comparison of high-level programming languages and software systems. Problems and related business applications are programmed.

Prerequisite: Management 230.

251 (351). Principles of Management. (4-0-4)

Fundamentals of management; objectives, policies, functions, leadership, organization structure and operational procedure.

331. Data Processing Systems for Business. (4-0-4) F, W, S.

The structure and development of manual, mechanical, and electronic information handling systems.

Prerequisite: Management 230.

332. Computer File Organization and Management Methods. (4-0-4) Su, W.

The universal data base used with modern computer systems. Includes file organization, maintenance, retrieval, and security.

Prerequisite: Management 230 and junior standing.

333. Real-Time Business Systems. (4-0-4) S.

A study of the process of integrating the computer based, file-oriented business system into its operational environment.

Prerequisite: Management 332 and junior standing.

345 (452). Personnel Management. (4-0-4)

Objectives, functions, and organization of a typical personnel program. Problems in personnel administration.

Prerequisite: Management 251 or permission of Head of the Department of Management.

346. Business Law. (4-0-4)

Introduction to law; contracts; agency and employment; commercial papers; personal property and bailments.

Prerequisite: Junior standing.

347. Business Law. (4-0-4)

Sales of goods; partnerships; corporations; real property and leases; insurance; security devices; bankruptcy; trusts and estates.

Prerequisite: Management 346.

370. Principles of Financial Management. (4-0-4)

Financial organizations in the American economy.

371 (482). Corporation Finance. (4-0-4)

Methods of financing large and small business corporations. The corporation, investor and society considered.

Prerequisite: Management 370.

372 (380). Investments. (4-0-4) F, S.

Study of the mechanics of investment analysis. Selection of securities for portfolios with emphasis on personal investing.

Prerequisite: Accounting 230, Economics 255, or permission of the instructor.

381. Business Statistics I. (4-0-4)

Provides a working knowledge of the statistical tools used in analyzing business problems.

Not open to students who have completed an introductory statistics course.

382 (384). Business Statistics II. (4-0-4) Su, W, S.

Extension of the range of topics covered in Business Statistics I.

Prerequisite: Management 381.

383. Business Report Writing. (4-0-4)

The organization and preparation of research oriented reports used in business and technical communications. Study of actual reports.

Prerequisite: Junior standing.

390 (480). Principles of Insurance. (4-0-4) F, S.

Risks to which man and property are subject, including life, property, and casualty insurance.

420. Security Analysis. (4-0-4) Su, W.

A case and problem approach—including investment policies, practices, and analysis of direct and indirect investments.

Prerequisite: Management 372.

430. Data Processing Laboratory. (Arr.-Arr.-4)

Processing of information by using punched card equipment and the computer. Individual projects.

Prerequisite: Management 230 and permission of the Head of the Department of Management.

434. Production Management. (4-0-4) F, S.

Management of manufacturing enterprises. Includes plant location, plant layout, production processes, and production control systems.

Prerequisite: Management 251.

435. Motion and Time Study. (4-0-4) Su, W.

Study of work methods, design and principles of motion and time economy.

Prerequisite: Management 251, 434.

436. Managerial Decision Making. (4-0-4) F, S.

Decision making in a simulated dynamic, competitive industry.

Prerequisite: Management 251.

437. Job Evaluation. (4-0-4) W.

Analysis of the methods and techniques used in evaluating jobs. Problems of wage and salary structure.

Prerequisite: Management 251 and 345.

438. Labor Law. (4-0-4) S.

Labor problems arising from activities, jurisdiction, and remedies of labor organizations.

Prerequisite: Management 347.

439. Real Estate. (4-0-4) W.

A study of theory and practice in real estate, with social and economic implications.

Prerequisite: Management 347.

445. Collective Bargaining. (4-0-4) S.

Deals with the role played by management and labor representatives in the collective bargaining process.

Prerequisite: Management 347.

490. Internship in Management. (Arr.-Arr.-4)

Employment experience in a phase of management for one quarter, in a firm approved by the Head of the Department of Management.

Prerequisite: Permission of the Head of the Department of Management and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**458. Case Problems in Business Law. (4-0-4) S.**

Case problems approach to the various topics in the field of business law.

Prerequisite: Management 347 or the equivalent.

483. Current Problems in Finance. (4-0-4) S.

A survey of current literature in finance with a seminar approach in discussing present problems and developments.

Prerequisites: Management 371 and 372.

484. Commercial Banking. (4-0-4) W.

The organization and management of commercial banks, functions, departments, personnel, policies. The contribution of the modern commercial bank to the community.

Prerequisites: Accounting 230 and Economics 255.

498. Independent Study. (Arr.-Arr.-4)

Individual study programs under direction of department head.

Prerequisites: Senior standing and permission of the Head of the Department of Management.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. The Corporation in Society. (4-0-4) Su.

A course for non-business majors to give an understanding of the corporate idea and the adaptation of this idea to the requirements of modern society.

Credit applicable only to the Group III requirements for the degree M.S. in Ed.

MARKETING**247. Principles of Marketing. (4-0-4)**

Marketing channels; marketing functions and institutions; methods in marketing agricultural products, raw materials and manufactured goods.

248. Principles of Salesmanship. (4-0-4)

The psychology of salesmanship as it relates to the planning and execution of a sale; principles of general selling.

249. Principles of Retailing. (4-0-4)

The organization and management of retail stores; location, layout, financing, buying, pricing, credits and collections, stock control, personnel work.

Prerequisite: Marketing 247 and Accounting 230.

250. Principles of Advertising. (4-0-4)

Social and economic aspects of advertising; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; slogans; campaigns.

Prerequisite: Marketing 247.

370. Credit Management. (4-0-4)

Consumer and commercial credit and collection practices and policies

in business organization. Organization and operation of credit departments.

Prerequisite: Accounting 230, Economics 256, or permission of the instructor.

371. Materials Management. (4-0-4) F, S.

The acquisition, control and utilization of materials in industrial operations. Deals with the nature of procurement, inventory control and value analysis.

Prerequisite: Marketing 247, Management 251 and Economics 256.

372. Consumer Behavior and Motivation. (4-0-4) W, S.

A study of the identification and understanding of consumer behavior and the forces underlying that behavior which affect marketing decisions.

Prerequisites: Marketing 247; 8 quarter hours in sociology and/or psychology; 4 quarter hours in economics; junior standing.

449. International Marketing. (4-0-4) W.

An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations.

Prerequisite: Marketing 247 and Economics 256.

490. Internship in Marketing. (Arr.-Arr.-4)

Employment experience in some phase of marketing for one quarter, in a firm approved by the Head of the Department of Marketing.

Prerequisite: Permission of the Head of the Department of Marketing and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

476. Traffic Management. (4-0-4) F, S.

Transportation facilities and their historical development; comparison of alternative services; transport costs, rates and routes; shipping documents.

Prerequisites: Marketing 247 and Management 251.

486. Marketing Research. (4-0-4) Su, F, S.

Nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report and follow-up. Problems.

Prerequisite: Marketing 247.

487. Market Management Problems. Su, W, S.

Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions.

Prerequisites: Accounting 232, Marketing 247, and Management 251.

498. Independent Study. (Arr.-Arr.-4)

The student will be assigned material from literature of marketing.

A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Marketing.

MASTER OF BUSINESS ADMINISTRATION

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

530. Quantitative Analysis. (4-0-4) F.

Designed to provide students with skills in quantitative techniques necessary for advanced work in functional areas of business administration.

531. Communication Analysis. (4-0-4) F.

Analysis of the functions, planning, psychology, and organization of selected types of written and oral business communications.

532. Management Information Systems. (4-0-4) F.

The accumulation, processing, analysis, and utilization of data pertinent to the operation of a business firm.

Prerequisite: Management 230.

533. Production Management. (4-0-4) F.

An examination of operating problems from the standpoint of the production executive.

Prerequisite: Management 251.

534. Foundations of Business Enterprise. (4-0-4) F.

The historical development of business enterprises; the social and economic role of the executive; the evolution of business organizations.

560. Managerial Accounting. (4-0-4) W.

Accounting as viewed by the user rather than the supplier of financial data.

Prerequisite: Accounting 232.

561. Marketing Management. (4-0-4) W.

The techniques of management as they are applied to the functional areas of marketing. A case problems course interspersed with related readings and lectures.

Prerequisites: Marketing 247, Economics 256.

562. Operations Research. (4-0-4) W.

Principles and methods of operations research: topics in linear programming, PERT, inventory models, queuing theory, simulation, and probability theory.

Prerequisite: MBA 530 or equivalent.

563. Manpower Management. (4-0-4) W.

A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management.

564. Financial Management. (4-0-4)

A financial approach to management; the sources and uses of funds. Lectures, cases, and current readings in the field.

Prerequisite: Management 370.

580. Seminar in Accounting Theory. (4-0-4) S.

An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting.

Prerequisite: Accounting 232.

581. Seminar in Marketing Theory. (4-0-4) S.

The discipline of marketing is examined. Past and present writings of marketing scholars will be studied and reported.

Prerequisite: MBA 561 or Marketing 487.

582. Seminar in Organization Theory. (4-0-4) S.

Value systems underlying management thought. The behavioral sciences as they pertain to organization behavior and practice.

Prerequisite: Management 251.

583. Seminar in Business Finance. (4-0-4) S.

Analysis of money markets from the investor's point of view. A study of financial institutions and their influence on money markets.

Prerequisite: MBA 564.

590. Administrative Policy. (4-0-4) S.

Top-management functioning. Emphasis is on integration of functions. Case studies, special reports, and seminar discussions of top management problems.

Prerequisite: At least sixteen quarter hours in MBA courses.

595. Thesis. (Arr.-Arr.-4)

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Health Education	314
Physical Education for Men	315
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HEALTH EDUCATION

UNDERGRADUATE COURSES

120. Personal Hygiene. (4-0-4)

The application of scientific health facts and principles that relate to effective living.

131. First Aid and Safety Education. (4-0-4)

Regulation American Red Cross first aid methods, safety in schools, particularly physical education activities.

227. Community Health. (4-0-4)

Factors in the biological, physical, and social environments that influence the magnitudes and character of health problems, goals, and solutions.

Prerequisite: Health Education 120.

300. Instructor's First Aid. (4-0-4) S.

Standard, advanced, and instructor's course in first aid.

320. School Health. (4-0-4)

A survey of the school health program with emphasis on the responsibilities of school personnel.

Prerequisite: Health Education 120 or equivalent.

330. Principles of Accident Prevention. (4-0-4)

Safety problems of modern life in the home, school, during recreation, on the highway, and at work.

331. Introduction to Driver Education. (4-1-4)

Preparation for high school driver education teachers. Includes simulation and work with beginning drivers.

Prerequisites: Valid driver's license and a safe driving record.

332. Advanced Driver Education and Traffic Safety. (4-0-4) Su, F, S.

Administration, organization, finance, special programs and evaluation of school driver education programs.

335. Industrial Accident Prevention. (4-0-4) W.

Trends and organizational techniques in accident prevention programs as related to industrial operations.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

480. Alcohol, Narcotics, Hallucinogenic Drugs: Science and Society. (4-0-4) Su.

The use and abuse of drugs.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose

grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

501. Current Health Problems. (4-0-4) S.

An epidemiological investigation of the cause, nature, extent, and programming of current health problems.

505. Occupational Cooperative Education. (Arr.-Arr.-4) Su.

A study of part-time, on-the-job education utilizing the resources of the community and the school.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

506. Administration and Supervision of Occupational Education. (Arr.-Arr.-4) Su.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

507, 508, 509. Seminar in Occupational Education. (Arr.-Arr.-4 each course) Su.

Intensive study of contemporary problems, issues, trends and developments in occupational education and technology.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

PHYSICAL EDUCATION FOR MEN

Students are required to attend physical education classes regularly two hours each week during each quarter of residence (including summer) until a minimum of six quarter hours credit has been earned unless this requirement is modified by the University Physician or they are over thirty-eight years of age at the time of admission to the University. It is the responsibility of the student, not his advisor, to see that this requirement is met, and to select his own courses for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

Students who attend only in summer and who will not become candidates for graduation are released from physical education requirements.

It is recommended that the student select a program of activities which includes a minimum of two courses in team games, two courses in individual activities, and one course in dance. No course may be repeated for credit without permission of the Head of the Men's Physical Education Department.

Prior to entering the University, each student is required to have a physical examination. When abnormalities and weaknesses are disclosed by the examination, corrective exercise and restricted activities are prescribed. The Health Service follows up cases in need of medical attention.

Equipment. Each student who takes physical education is required to have rubber-soled gymnastic shoes. All other equipment will be furnished by the University. Each student is required to follow regulations in the

use of this equipment. Regulations for the use of the equipment will be given at the first class period and will be posted in the locker room.

For a statement of fees for lock, see page 60.

SERVICE COURSES

Service courses in physical education are numbered to indicate the level of the work. Courses in the 100 series are intended for beginners; majors and minors in physical education should register for service courses which will serve as prerequisites for the professional "Technique of Teaching" courses. Veterans who are majors or minors in physical education are not exempted from service physical education or Health Education 120, unless evidence is presented that the specific content of these courses has been covered in military service.

- 002. Baseball (Intercollegiate Team Participation). (5-0-1) S.
- 003. Basketball (Intercollegiate Team Participation). (5-0-1) W.
- 005. Soccer. (Intercollegiate Team Participation). (5-0-1) F.
- 009. Football (Intercollegiate Team Participation). (5-0-1) F.
- 012. Golf (Intercollegiate Team Participation). (5-0-1) S.
- 013. Gymnastics (Intercollegiate Team Participation). (5-0-1) W, S.
- 014. Tennis (Intercollegiate Team Participation). (5-0-1) S.
- 015. Wrestling (Intercollegiate Team Participation). (5-0-1) W.
- 016. Cross Country and Track (Intercollegiate Team Participation). (5-0-1) F, W, S.
- 018. Swimming (Intercollegiate Team Participation). (5-0-1) W.
- 100. Basic Physical Education. (2-0-1) (Omitted 1970-71.)

Activities to improve the general fitness and motor ability as related to individual needs.

- 101. Prescribed Activities. (2-0-1) F, W, S.

Corrective exercise and adapted activities for students whose physical condition will not permit participation in the regular activity program.

- 103. Basketball (Beginning). (2-0-1)
- 105. Soccer (Beginning). (2-0-1) F.
- 106. Softball (Beginning). (2-0-1) Su, S.
- 107. Touch Football (Beginning). (2-0-1) F.
- 108. Volleyball (Beginning). (2-0-1)
- 110. Archery (Beginning). (2-0-1) Su, F, S.
- 111. Badminton (Beginning). (2-0-1)

Open to both men and women.

- 112. Golf (Beginning). (2-0-1) Su, F, S.

Open to both men and women.

113. **Gymnastics Apparatus (Beginning).** (2-0-1) W, S.

114. **Tennis (Beginning).** (2-0-1) Su, F, S.

Open to both men and women.

115. **Wrestling (Beginning).** (2-0-1) W.

116. **Track (Beginning).** (2-0-1) S.

117. **Stunts and Tumbling.** (2-0-1) W.

119. **Bowling (Beginning)** (2-0-1) W, S.

Open to both men and women.

140 (118). **Swimming (Beginning).** (2-0-1)

For beginning swimmers only. Persons able to swim the width of a 45-foot pool should enroll in P.E.M. 141.

141. **Intermediate Swimming.** (2-0-1)

142. **Senior Life Saving.** (2-0-1) Su, W.

Prerequisite: P.E.M. 141. Intermediate swimming or demonstrate level of ability by passing a pre-test. Open to both men and women.

143. **Competitive Swimming and Diving.** (2-0-1) F.

Prerequisite: P.E.M. 141. Intermediate swimming or demonstrate level of ability by passing a pre-test.

144. **Scuba and Snorkel Diving.** (2-0-1) Su, W, S.

Prerequisite: P.E.M. 141 or demonstrate level of ability by passing a pre-test. Open to both men and women.

145. **Water Polo.** (2-0-1) W.

Prerequisite: A student must demonstrate a level of swimming ability equal to skills learned in any other course offered in swimming except P.E.M. 140.

146. **Water Safety Instruction.** (2-0-1) S.

Prerequisite: A student must have passed P.E.M. 142 or have a recently earned Senior Life Saving Certificate issued by the American Red Cross. Open to both men and women.

160. **Weight Training (Beginning).** (2-0-1)

161. **Weight Training (Intermediate).** (2-0-1)

Prerequisite: P.E.M. 160 or demonstrate level of ability by passing pre-test.

162. **Handball.** (2-0-1)

164. **Rifle and Pistol.** (2-0-1) F, W, S.

190. **Folk and Square Dancing.** (2-0-1) See Physical Education (Women).

191. **Modern Dance.** (Beginning). (2-0-1) See Physical Education (Women).

192. **Social Dance.** (2-0-1) See Physical Education (Women).

PROFESSIONAL COURSES
(Undergraduate Courses)

120. Basic Activities for Elementary and Secondary Schools. (4-0-4)

Games and activities for the elementary and secondary level including body mechanics; basic exercises; rhythms.

121. Elementary Tumbling, Stunts, and Pyramids. (4-0-4)

Basic tumbling skills; vaulting; trampoline.

150. Introduction to Physical Education. (4-0-4)

General scope, purpose, history, growth and development of physical education.

203. Technique of Teaching Basketball. (1-2-2)

Prerequisite: Physical Education 103 or evidence of a level of competence in the specific skill necessary for teaching.

205. Technique of Teaching Soccer. (1-2-2) F.

Prerequisite: Physical Education 105 or evidence of a level of competence in the specific skill necessary for teaching.

206. Techniques of Teaching Softball. (1-2-2) Su, S.

Prerequisite: Physical Education 106 or evidence of a level of competence in the specific skill necessary for teaching.

207. Technique of Teaching Touch Football. (1-2-2) F.

Prerequisite: Physical Education 107 or evidence of a level of competence in the specific skill necessary for teaching.

208. Technique of Teaching Volleyball. (1-2-2)

Prerequisite: Physical Education 108 or evidence of a level of competence in the specific skill necessary for teaching.

210. Technique of Teaching Archery. (1-2-2) Su, F, S.

Prerequisite: Physical Education 110 or evidence of a level of competence in the specific skill necessary for teaching.

211. Technique of Teaching Badminton. (1-2-2)

Prerequisite: Physical Education 111 or evidence of a level of competence in the specific skill necessary for teaching.

212. Technique of Teaching Golf. (1-2-2) Su, F, S.

Prerequisite: Physical Education 112 or evidence of a level of competence in the specific skill necessary for teaching.

213. Technique of Teaching Gymnastics Apparatus. (1-2-2) W, S.

Prerequisite: Physical Education 113 or evidence of a level of competence in the specific skill necessary for teaching.

214. Technique of Teaching Tennis. (1-2-2) Su, F, S.

Prerequisite: Physical Education 114 or evidence of a level of competence in the specific skill necessary for teaching.

215. Technique of Teaching Wrestling. (1-2-2) W.

Prerequisite: Physical Education 115 or evidence of a level of competence in the specific skill necessary for teaching.

217. Technique of Teaching Stunts and Tumbling. (1-2-2) W.

Prerequisite: Physical Education 117 or evidence of a level of competence in the specific skill necessary for teaching.

228. Organization and Administration of Playgrounds. (4-0-4) S.

Administrative problems associated with the total operation of playgrounds.
Open to both men and women.

240 (218). Technique of Teaching Swimming. (1-2-2)

Prerequisite: Physical Education 140, or Red Cross Certificate or evidence of a level of competence in the specific skill necessary for teaching.

244. Kinesiology. (4-0-4)

Laws of physics applied to human motion; joint movements; motion of muscle groups. Analysis of fundamental body movements and the adaptation of gymnastic exercises to posture training and sports activities.

Prerequisite: Zoology 225. Open to both men and women.

340. Organization of Grade Level Activities and Methods of Teaching the Activity in Physical Education. (4-0-4)

Organization of health and physical education activities for various age levels, and methods of teaching health and physical education.

Prerequisite: Four quarter hours of physical education activities at the 200 level; admission to teacher education and junior standing.

347. Basketball Coaching. (2-4-4)

Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.

348. Football Coaching. (2-4-4)

Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; strategy.

349. Track and Field Coaching. (2-4-4)

Fundamentals of track and field events; javelin; hurdles. Organization of track meets. Study of rules and strategy.

350. Baseball Coaching. (2-4-4)

Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.

351. Camping. (4-0-4) S.

Organization and administration of camps including program planning; counselor problems; camp policies.

358. Gymnastics Coaching. (2-4-4) (Omitted 1970-71.)

Fundamentals of heavy apparatus; rings, trampoline; free exercise.

378. Introduction to Community Recreation. (4-0-4) F.

Various approaches to community organization of recreation with study of the settings provided for the development of recreational services.

431 (451). History and Principles of Physical Education. (4-0-4)**432 (452). Physical Education Administration and Supervision. (4-0-4)****433 (461). The Prevention and Care of Athletic Injuries. (4-0-4)**

Primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**470 (522). Organization and Administration of Intramural Athletics. (4-0-4) Su, F.**

The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs.

Open to both men and women.

471. Practicum in Recreation Leadership. (0-8-4) Su.

A field experience to include assignment to an established community recreation program.

Open to both men and women.

474. Development of Areas and Facilities for Physical Education and Recreation. (4-0-4) F.

Design and operation of physical education and recreation facilities, both indoor and outdoor, including types, location, layout, and construction standards.

Open to both men and women.

476. Recreation in the Natural Environment. (4-0-4) S.

An analysis of existing programs of recreation, both commercial and public, conducted in the natural environment.

Open to both men and women.

479. Swimming Pool Management and Operation. (4-0-4) W.

A course to orient the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning.

Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Introduction to Graduate Study in Physical Education. (4-0-4) Su, F.

A critical review and evaluation of selected studies in physical education. Study of problems confronting the professional techniques employed in research.

Open to both men and women.

520 (495). **Course of Study Development in Physical Education.** (4-0-4) S.

Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.

Open to both men and women.

521 (475). **Administration of Interschool Athletics.** (4-0-4) Su, W.

Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.

523. **Physiology of Exercise.** (4-0-4) Su, W.

A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory and muscular systems.

Prerequisite: Zoology 348. Open to both men and women.

524. **Physical Education for the Atypical Individual.** (4-0-4) (Omitted 1970-71.)

Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual.

Open to both men and women.

528. **The Organization and Administration of Community Recreation.** (4-0-4) Su, S.

Trends in recreation on federal, state, and local levels. Legislative provisions; governmental control; financing; personnel; departmental organization, and administrative procedures.

Open to both men and women.

530. **Advanced Administration of Physical Education in Schools.** (4-0-4) W.

Liability; construction of facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.

Open to both men and women.

550. **Sports and Physical Education in American Society.** (4-0-4) (Omitted 1970-71.)

A course for non-majors of physical education designed to study the contributions of physical education and athletics in our culture.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. **Experimental Laboratory Research in Physical Education.** (4-0-4) F.

Methods and techniques in research in physical education and related fields.

Open to both men and women.

571. **Sociological Bases of Sport in America.** (4-0-4) W.

The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America.

Open to both men and women.

572. Evaluation of Physical Education Philosophies in Foreign Countries. (4-0-4) S.

A comparative study of philosophies of physical education in selected European, Asian and Latin American countries.

Open to both men and women.

573. The Nature and Bases of Motor Behavior. (4-0-4) F.

A study of the factors influencing human movement and skill learning. Emphasis is placed upon the input-output aspects of motor skill performance.

Open to both men and women.

580. Analytical Readings in Health, Physical Education and Recreation. (4-0-4) (Omitted 1970-71)

Assigned readings in professional publications for education and health and physical education articles.

Open to both men and women.

590, 591, 592. Independent Study. (Arr.-Arr.-4 each course)

Individual pursuit of study selected by the student. Approval of the study is made by a graduate faculty committee.

595. Thesis. (Arr.-Arr.-4)

PHYSICAL EDUCATION FOR WOMEN

Students are required to attend physical education classes regularly two hours each week during each quarter of residence (including summer) until a minimum of six quarter hours credit has been earned unless this requirement is modified by the University Physician or they are over thirty-eight years of age at the time of admission to the University. It is the responsibility of the student, not his advisor, to see that this requirement is met, and to select his own courses for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

Students who attend only in summer and who will not become candidates for graduation are released from physical education requirements.

Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed. No course shall be repeated for credit without permission of the head of the Physical Education Department. Upperclassmen are encouraged to elect courses that interest them.

Physical education majors are required to take one course in swimming (186, 286, 386), or proficiency swimming by currently possessing a valid A.R.C. Senior Life Saving or W.S.I. Certificate.

SERVICE COURSES

098. Courses for Individual Needs. (2-0-1)

Courses in an adapted form of activity are offered for students with individual problems.

172. Basketball (Beginning). (2-0-1)

173. Field Hockey (Beginning). (2-0-1)

Required of all majors.

174. Soccer (Beginning). (2-0-1) F.

175. **Softball (Beginning).** (2-0-1) S.

176. **Speedball (Beginning).** (2-0-1) F, S.

Required of all majors.

177. **Volleyball (Beginning).** (2-0-1) Su, W, S.

180. **Archery (Beginning).** (2-0-1) Su, F, S.

Required of all majors.

181. **Badminton (Beginning).** (2-0-1)

Required of all majors.

182. **Bowling (Beginning).** (2-0-1)

Required of all majors.

183. **Golf (Beginning).** (2-0-1) Su, F, S.

Required of all majors.

185. **Stunts and Tumbling (Beginning).** (2-0-1) F, W.

Required of all majors.

186. **Swimming (Beginning).** (2-0-1)

For beginning swimmers only. Persons able to swim the width of a 45-foot pool should enroll in P.E.W. 286.

187. **Tennis (Beginning).** (2-0-1) Su, F, S.

Required of all majors.

188. **Fencing (Beginning).** (2-0-1) W, S.

189. **Gymnastics Apparatus (Beginning).** (2-0-1) S.

190. **Folk and Square Dance (Beginning).** (2-0-1)

Open to both men and women. Required of all majors.

191. **Modern Dance (Beginning).** (2-0-1) F, W, S.

Open to both men and women. Required of all majors.

192. **Ballroom Dance (Beginning).** (2-0-1)

Open to both men and women. Required of all majors.

194. **Track and Field (Beginning).** (2-0-1) Su, S.

For physical education majors and minors only, or permission of the instructor. Required of all majors.

196. **Officiating.** (2-0-1) F, S.

For physical education majors and minors only. Required of all majors.

197. **Officiating.** (2-0-1) Su, W.

For physical education majors and minors only. Required of all majors.

199. Fundamentals. (2-0-1)

Understandings and principles of good body mechanics as applied to everyday life.

Required of all majors.

272. Basketball (Intermediate). (2-0-1) W.

Prerequisite: Physical Education 172 or permission of the instructor.

273. Field Hockey (Intermediate). (2-0-1) F.

Prerequisite: Physical Education 173 or permission of the instructor.

277. Volleyball (Intermediate). (2-0-1) W.

Prerequisite: Physical Education 177 or permission of the instructor.

281. Badminton (Intermediate). (2-0-1) W, S.

Prerequisite: Physical Education 181 or permission of the instructor.

283. Golf (Intermediate). (2-0-1) Su, F.

Prerequisite: Physical Education 183 or permission of the instructor.

286. Swimming (Intermediate). (2-0-1)

Prerequisite: Physical Education 186 or permission of the instructor.

287. Tennis (Intermediate). (2-0-1) F.

Prerequisite: Physical Education 187 or permission of the instructor.

290. Folk and Square Dance (Intermediate). (2-0-1) W.**291. Modern Dance (Intermediate). (2-0-1) F, W, S.**

Prerequisite: Physical Education 191 or permission of the instructor. Required of all majors.

315. Games for the Elementary School. (2-0-1) W, S.

Prerequisite: Physical Education 130. For physical education majors only. Required of all majors.

383. Golf (Advanced). (2-0-1) (Omitted 1970-71.)

Prerequisite: Physical Education 283 or permission of the instructor.

386. Swimming (Advanced). (2-0-1) F, W, S.

Prerequisite: Physical Education 286 or permission of the instructor.

387. Tennis (Advanced). (2-0-1) (Omitted 1970-71.)

Prerequisite: Physical Education 287 or permission of the instructor.

391. Modern Dance (Composition). (2-0-1) F, W, S.

This course acquaints the students with the elements of dance, its theatre, and its application, resulting in individual and group compositions.

Prerequisite: Physical Education 291, or permission of instructor. Open to both men and women. Required of all majors.

392. Rhythm Analysis. (2-0-1) F, W, S.

An analysis of, and practice in, the rhythm factors in movement with special emphasis on the basic dance steps and skills.

Prerequisite: Physical Education 391. For physical education majors and minors only, or permission of the instructor. Required of all majors.

PROFESSIONAL COURSES**(Undergraduate Courses)****130. Plays, Games and Activities of Low Organizations. (4-0-4)**

Games, stunts, athletic and rhythmic activities for the elementary grade children as basic to the high school activities.

Open to both men and women.

132. Leadership in Recreation. (4-0-4) F, S.

Basic philosophy of recreation and of areas, activities and interests in the field of recreation; practical experience in planning and administration.

Open to both men and women.

233. Technique of Team Sports—Soccer, Speedball, and Hockey. (4-0-4) F, S.

Prerequisite: Activity courses in the above sports or permission of the instructor.

234. Technique of Team Sports—Basketball, Volleyball, and Softball. (4-0-4) Su, W.

Prerequisite: Activity courses in the above sports or permission of the instructor.

235. Theory of Prescribed Exercises. (4-0-4) W, S.

Preventive and modified activities for the physically handicapped child. Theory and practice of an orthopedic examination are included.

Open to both men and women. Prerequisite: Zoology 225 and Physical Education 244.

252. Activity Needs and Interests of the Elementary School Child. (4-0-4) Su, S.

Needs in terms of growth, development, and adjustment of children. How to choose activities that will contribute most to the satisfaction of these needs.

Open to both men and women. Prerequisite: Physical Education 130 or permission of the instructor.

336. Problems in Developing Programs in Modern and Folk Dance. (4-0-4) W, S.

Principles underlying the modern dance art form. Structure and ethnic roots of folk. Materials for course planning, teaching, and accompaniment.

Open to both men and women. Prerequisites: Physical Education 191, 291, 391 and 190.

346. Course Planning and Organization of Square and Social Dance. (4-0-4) Su, F.

Theory and methods for Junior and Senior High Schools basic to

course planning and teaching. Analysis of music for dance. Survey of literature.

Open to both men and women. Prerequisite: Physical Education 190 and 192.

353. Technique of Individual Sports—Archery, Badminton, Tennis, and Stunts. (4-0-4) Su, S.

An analysis of the basic techniques of archery, badminton, tennis, and stunts. The selection of materials adaptable to the needs of particular groups.

Prerequisite: Activity courses in the above sports or permission of the instructor.

355. Field Work in Recreation. (4-0-4) (Omitted 1970-71.)

Students are assigned to a public or private agency in the community for the purpose of organizing and conducting activities or groups under supervision.

Open to both men and women.

356. Outing Crafts. (4-0-4) Su.

A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in the various areas covered.

Open to both men and women.

360. Introduction to Elementary School Physical Education. (4-0-2)

Physical education as it relates to the total education of the elementary school child with emphasis on the developmental approach.

361. Physical Education Activities for Elementary Schools. (4-0-4) F, W.

Body mechanics and games; emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

362. Rhythmical Activities for Elementary Schools. (4-0-4) Su, S.

Dance and creative rhythms; emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

363. Tumbling and Apparatus Activities for Elementary Schools. (4-0-4) W, S.

A study of tumbling and apparatus in the elementary school curriculum. Spotting techniques in mat and apparatus work is stressed.

Prerequisite: Physical Education 360 or 130. Open to both men and women.

396. Aesthetics of the Dance. (4-0-4) S.

A study of dance as a created, performed, and perceived art with

discussion of aesthetic principles as related to dance as an art experience.

May be used as partial fulfillment of the humanities requirement.

410 (451). **History and Principles of Physical Education.** (4-0-4) F, W.

411 (456). **Organization and Administration of Physical Education.** (4-0-4) Su, W, S.

Prerequisite: Physical Education 410.

413 (458). **Objectives of Physical Education and Administration of the Program.** (4-0-4) Su, S.

This course is intended for students in the physical education minor and the physical education concentration in the elementary curriculum.

Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. **Evaluation of Physical Education Activities.** (4-0-4)

Selection and administration of physical measurements and written tests commonly used in physical education.

Open to both men and women.

457. **Analysis of Human Motion.** (4-0-4) Su, S.

Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion.

Prerequisite: Physical Education 244. Open to both men and women.

473 (513). **Planning the Recreation Program.** (Omitted 1970-71.) (4-0-4)

Exploration of philosophical viewpoints underlying a recreational program; criteria for evaluating the recreational potential of a community.

Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. **Supervision of Physical Education.** (4-0-4) W.

Techniques of supervision; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.

Open to both men and women.

512. **Application of Psychology to Physical Education.** (4-0-4) W.

A study of psychological principles, laws of learning, and their application to physical education.

Open to both men and women.

514 (459). **Current Trends in the Teaching of Physical Education in the Elementary and Junior High School.** (4-0-4) (Omitted 1970-71.)

Materials, organization and program of physical education. Integration

of physical education with general education.

Prerequisite: Physical Education 252 or equivalent. Open to both men and women.

515. Physical Education—An Aesthetic Approach. (4-0-4) S.

Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures.

Open to both men and women.

519. Growth and Development Through Physical Education. (4-0-4) F.

Survey of growth and development of children and adolescents as these relate to curriculum planning for physical education.

Open to both men and women.

551. Historical Development of Dance. (4-0-4) (Omitted 1970-71.)

Relationship of dance to the other arts. Emphasis is given to the socio-cultural implications of the arts and the specific role of dance.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Advanced Theory and Analysis of Team Sports. (4-0-4) (Omitted 1970-71.)

Study of techniques, organization, and team strategy of selected team sports as they relate to the learner and the physical education program.

Prerequisite: Proficiency in the selected sports.

561. Advanced Theory and Analysis of Individual Sports. (4-0-4) Su, S.

Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the physical education program.

Prerequisite: Proficiency in the selected sports.

562. Problems in the Administration of Girls' Physical Education. (4-0-4) (Omitted 1970-71.)

Opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education, also problems in the administrative field.

563. Philosophy of Physical Education. (4-0-4) Su, F.

Study of principles of physical education with application to current problems in the field.

Open to both men and women.

595. Thesis. (Arr.-Arr.-4)

SCHOOL OF HOME ECONOMICS

HOME ECONOMICS

UNDERGRADUATE COURSES

101. Principles of Clothing Construction. (0-8-4)

A study of the principles of simple construction processes; interpretation and use of commercial patterns.

102. Nutrition. (4-0-4)

The principles of human nutrition and their application to everyday nutritional problems.

For majors only. (See Home Economics 303 for others.)

131. Clothing Selection. (4-0-4) F, W, S.

An introduction to consumer buying of ready-to-wear clothing; includes the study of fabrics, construction features, and design and color principles.

201. Advanced Clothing Construction. (0-8-4)

Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and garment fitting.

Prerequisite: Home Economics 101 or permission of instructor.

210. Principles of Food Preparation. (2-4-4) F.

A study of the scientific principles and techniques underlying food preparation with special emphasis on physical and chemical changes involved.

Prerequisites: Chemistry 110, 111, 112, or permission of the instructor. Open to minors without chemistry sequence.

211. Principles of Food Preparation, Continued. (2-4-4) W.

Continued study of the scientific principles and techniques underlying food preparation.

Prerequisite: Home Economics 210 or permission of instructor.

212 (204). Studies in Experimental Foods. (2-4-4) S.

Physical and chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

Prerequisite: Home Economics 211.

230. Household Equipment. (4-0-4) F, W, S.

Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.

231. Sociology of Clothing. (2-0-2)

Significance of clothing choices in all cultures; psychological reasons for clothing selection; political and economic trends affecting clothing.

232. Fashion Analysis. (4-0-4) W.

A study of fashion; selected designers, cycles and trends of fashion, terminology, production and distribution of fashion goods.

Prerequisite: Home Economics 131.

233. Textiles. (4-0-4) W.

An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market.

Prerequisite: Home Economics 131.

235. Household Physics. (4-0-4) (Omitted 1970-71.)

Application of physical sciences to the home. Selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Background information for home economists in business.

245. Home Management Theory. (2-0-2)

Principles of scientific management as applied to the home; includes a study of time, energy and money management.

300. Consumer Education. (4-0-4)

Factors affecting family financial management, including investments and savings; use of credit; insurance and taxes.

Team taught with Business Education 300.

301. Tailoring. (0-8-4) Su, F, S.

Tailoring techniques used in the construction of a suit or coat.

Prerequisite: Home Economics 201 or permission of instructor.

302 (344). Advanced Nutrition. (4-0-4) W, S.

Principles of human nutrition as applied to the needs of individuals at various stages in the life span; some emphasis on current nutrition research.

Prerequisite: Home Economics 102.

303. Human Nutrition and Food Study. (4-0-4) W.

Fundamentals of nutrition as applied to adults and children; principles involved in menu building, food buying and preparation.

For non-majors only.

310. Family Food Management. (2-4-4) F.

Application of scientific principles of menu construction, food buying, food preparation and table service with special emphasis on management.

Prerequisite: Home Economics 211.

312. Advanced Experimental Foods. (2-4-4) S.

Advanced studies of physical and chemical reactions in food preparation when experimental procedures are applied.

Prerequisite: Home Economics 212.

320. Family Housing. (2-4-4)

Arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.

331. Historic Costume. (4-0-4) W.

A comparative study of the dress of selected cultures from the Egyptians through World War II.

Prerequisite: Home Economics 231.

333. Advanced Textiles. (4-0-4) F.

A study of the chemistry of textile fibers, especially synthetics, using research methods of analyzing and interpreting data in testing procedures.

Prerequisite: Home Economics 233.

340. Methods of Teaching Home Economics. (4-0-4) Su, F, S.

The principles of teaching applied to home economics with particular emphasis on curriculum development.

Prerequisite: Admission to teacher education and junior standing. Open to dietetics majors.

345. Home Management. (2-4-4) F, W, S.

Experience in the practical application of the principles of household management. A research project in management is required.

Prerequisites: Home Economics 211 and 245.

346. Child Development. (4-0-4)

The physical, mental, social, and emotional development of the pre-school child.

347. Family Relationships. (4-0-4)

Study of the family as the basic unit of society; personal relationships, and family interaction throughout the family life cycle.

348. Practicum in Child Development. (2-4-4) F, W, S.

Supervised observation and participation in the guidance of children in the Nursery School.

Prerequisite: Home Economics 346 or Education 232 or permission of instructor.

360. Institutional Food Management. (2-4-4) F.

Practice in quantity food production, menu planning, recipe standardization, management of time, motion and materials.

Prerequisite: Home Economics 102 or 303, and 211.

370. Practicum. (0-8-4)

An individually planned work experience in a business or agency appropriate to the student's area of specialization.

Prerequisite: Permission of the department head and acceptance of the student by a business or agency.

380. Demonstration Techniques. (2-4-4) F.

Development of desirable techniques and standards for use of the demonstration method suitable for use in business, teaching, and adult education.

390. Communications in Home Economics. (4-0-4) W.

A study of techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups.

401. Principles of Pattern Design. (0-8-4) S.

Principles of designing clothing and the translation of these designs into paper patterns. Each student must create an original design.

Prerequisite: Home Economics 301 or permission of instructor.

402. Diet Therapy. (4-0-4) (Omitted 1970-71.)

A study of the therapeutic care of a patient through the prescription of specific diets in relation to disease syndromes.

Prerequisite: Home Economics 302.

407. Independent Study in Home Economics. (Arr.-Arr.-4)

Provides opportunity for in-depth study of home economics subjects for which there is not an established course.

May be taken for credit only once.

411. Food Purchasing for Institutions. (4-0-4) (Omitted 1970-71.)

Factors affecting the purchase and storage of food in quantity.

Prerequisite: Senior standing or permission of the instructor.

420. Interior Design. (2-4-4) F.

Selection and arrangement of furnishings with the emphasis on planning costs and budgets for different income levels; planning of individual rooms including the study of accessories, color schemes, and suitable fabrics.

430. Home Furnishings. (2-4-4) S.

A study of the consumer's problems in the selection and production of home furnishings.

431. Textiles and Senior Seminar. (4-0-4) W, S.

An advanced study of textile fibers, yarns, weaves, and finishes. Current trends and research in home economics.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

502. Independent Study in Home Economics. (Arr.-Arr.-2 or 4)

To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered.

A maximum of four quarter hours credit may be earned.

505. Occupational Cooperative Education. (Arr.-Arr.-4) Su.

A study of part-time, on-the-job education utilizing the resources of the community and the school.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

506. Administration and Supervision of Occupational Education. (Arr.-Arr.-4) Su.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

507, 508, 509. Seminar in Occupational Education. (Arr.-Arr.-4 each course) Su.

Intensive study of contemporary problems, issues, trends and developments in occupational education and technology.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

542. Workshop in Curriculum Development. (Arr.-Arr.-2 or 4) Su.

Theoretical background and experimental approaches to curriculum improvement.

A maximum of four quarter hours credit may be earned.

560. Supervision in Home Economics. (4-0-4) (Omitted 1970-71.)

The role of the supervising teacher; problems of orientation, guidance and evaluation.

564. Professional Issues and Developments. (4-0-4) (Omitted 1970-71.)

A seminar dealing with the current and emerging problems, issues, trends, and developments in the field of home economics.

570. Evaluation in Home Economics. (4-0-4) (Omitted 1970-71.)

Development and critical evaluation of instruments designed to measure pupil growth.

595. Thesis. (Arr.-Arr.-4)

Individual direction of research thesis writing.

**SCHOOL OF
INDUSTRIAL ARTS AND TECHNOLOGY**

INDUSTRIAL ARTS

UNDERGRADUATE COURSES

Note: Courses in Industrial Arts are classified for curriculum selection as follows:

Orientation and Professional: 141, 340

Crafts: 129, 224, 225, 447, 452

Electronics: 116, 216, 217, 447

Graphic Arts: 111, 212, 311, 312, 313, 315, 412, 447

Graphics: 101, 104, 201, 202, 205, 301, 302, 303, 405, 447

Metals: 106, 306, 307, 308, 310, 409, 447

Woods: 121, 222, 321, 322, 323, 423, 447

101. Basic Engineering Drafting. (2-4-4) F, W, S.

Required of all majors.

Students taking 101 may not take 104 for credit.

104. Engineering Graphics. (3-3-4) W.

Students taking 104 may not take 101 for credit.

106. Metals in Technology. (2-4-4)

111. Survey of the Graphic Arts. (2-4-4)

Graphic arts and allied industries. Study of raised, flat, recessed, and porous surface image transfer.

116. AC and DC Circuits. (2-4-4)

Prerequisite: High school or college algebra and trigonometry.

121. Woods in Technology. (2-4-4)

Function, care, and use of woodwork hand tools, woodwork supplies, and finishes.

129. Industrial Crafts. (2-4-4) W, S.

Development, concepts, and selected processes through lectures and laboratory experiences in various media.

141. Orientation to Study of Industrial Education. (4-0-4) F, W, S.

Origin, development and organization of general and vocational programs of industrial education.

Required of all industrial arts majors and minors.

201. Introduction to the Slide Rule. (3-0-2) W.

Prerequisite: Slide rule must be furnished by student.

202. Fabrication Drafting and Analysis. (3-3-4) F, S.

Prerequisite: Industrial Arts 101 and proficiency in high school algebra and trigonometry or college algebra and trigonometry.

205. Industrial Arts Design. (4-0-4)

Required of all majors and minors.

Prerequisite: Industrial Arts 101.

212. Survey of Photo-Offset Lithography. (4-0-4) W, S.

Layout and design, image assembly, photo-conversion, image carrier preparation, image transfer, and finishing.

Prerequisite: Industrial Arts 111 or permission of the instructor.

216. Basic Vacuum Tube Circuits. (2-4-4) S.

Prerequisite: Industrial Arts 116.

217. Basic Semi-Conductor Circuits. (2-4-4) W.

Prerequisite: Industrial Arts 116.

222. Basic Fabrication of Woods. (2-4-4) F, W, S.

Study and use of power woodwork equipment.

Prerequisite: Industrial Arts 121.

224. Primary Grade Industrial Arts. (2-4-4)

Dissemination of subject matter information; laboratory experiences with industrial materials as a teaching device in the lower grades.

Not open to industrial arts majors.

225. Intermediate Grade Industrial Arts. (2-4-4)

Laboratory experiences and informational content concerning industrial crafts for intermediate grade level.

Not open to industrial arts majors.

301. Architectural Planning and Analysis. (2-4-4) F, W.

Cost factors in house construction, styles, planning and choosing materials.

302. Architectural Drafting and Design. (2-4-4) W, S.

Principles of house construction, details of construction, working drawings, and F.H.A. specifications.

Prerequisite: Industrial Arts 301.

303. Production Drafting and Design. (3-3-4) Su, F, S.

Prerequisites: Industrial Arts 101, proficiency in high school algebra and trigonometry or Mathematics 130, 131.

306. Metal Machining Processes. (2-4-4) F, W.

Machining processes involving the lathe, mill, shaper, drill and surface grinder.

Prerequisites: Industrial Arts 106 and Mathematics 126 or 130.

307. Production Metal Machining Processes. (2-4-4) W, S.

Production of multiple parts involving design, fabrication and production.

Prerequisites: Industrial Arts 306 and Industrial Arts 303.

308. Advanced Metal Working Processes. (2-4-4) S.

Special areas of metal work involving metal casting, tool and cutter

grinding, chipless machining processes, numerical control, and equipment selection.

Prerequisite: Industrial Arts 306.

310. Forming and Fabricating of Sheet Materials. (2-4-4) W.

Design layout, forming and fabricating sheet materials.

Prerequisite: Industrial Arts 106.

312. Letterpress Printing. (2-4-4) F.

Imposition and lockup, makeready, and image transfer for hand and automatic platen and cylinder equipment.

Prerequisite: Industrial Arts 111.

313. Graphic Arts Technology. (4-0-4) F.

Production of books, magazines, newspapers. Computer implications for typesetting, quality control, inventory, personnel.

Prerequisite: Industrial Arts 111.

315. Graphic Arts for Journalists. (2-4-4) W.

Graphic arts procedures and allied industries. Emphasis on materials, equipment, and processes.

321. Woodfinishing. (2-3-2) S.

Preparation of wood for finish. Applying finish by various methods.

322. Woodturning. (1-3-2) S.

Operation and care of wood lathes; spindle and faceplate turning.

Prerequisite: Industrial Arts 323.

323. Production Wood Technology. (2-4-4) Su, F, S.

Furniture and cabinet making with woodwork machines.

Prerequisites: Industrial Arts 101, 222, and 321. The student pays for materials used in this course.

340. Methods of Teaching Industrial Arts. (4-0-4) W, S.

Prerequisites: Six industrial arts laboratory courses. Admission to teacher education and junior standing.

405. Graphical Industrial Illustration. (3-3-4) W.

Prerequisite: Proficiency in Industrial Arts 202.

409. Welding Technology. (2-4-4) S.

Welding techniques involving oxy-acetylene and electric arc equipment.

Prerequisite: Industrial Arts 106.

412. Offset Ink Transfer. (2-4-4) S.

Feeding, dampening, inking, impression and delivery systems. Color image transfer, instrumentation.

Prerequisite: Industrial Arts 212 or concurrent enrollment.

423. Tool Maintenance. (1-3-2) W.

Reconditioning toothed, sharp edge, boring tools, and machines.

Prerequisite: Industrial Arts 323.

447, 448. Independent Study. (Arr.-Arr.-4 each course)

Technical investigation involving experimental laboratory work.

Prerequisites: A minimum of five courses in area of study. Instructor approval of study necessary before registration for course. Industrial Arts major or senior standing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**453. Applied Descriptive Geometry. (4-0-4) (Omitted 1970-71.)**

Prerequisite: Industrial Arts 101.

461. Photo-Conversion Procedures. (4-Arr.-4) (Omitted 1970-71.)

Black-and-white and color copy preparation, photo-conversion, and film processing; instrumentation, quality control.

Prerequisite: Industrial Arts 212 or permission of instructor.

490 (491, 492). Task Analysis and Course Outline. (4-0-4) Su, W.

Study of the techniques of analyzing occupation with specific components and the development of course outline for instructional program.

493 (451). Organization of Subject Matter. (Arr.-Arr.-4)

Advanced work in the preparation of instructional material.

Prerequisite: Industrial Arts 340.

495 (492, 560). Student Achievement and Program Evaluation. (4-0-4) Su.**GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. Occupational Cooperative Education. (Arr.-Arr.-4) Su.

A study of part-time, on-the-job education utilizing the resources of the community and the school.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

506. Administration and Supervision of Occupational Education. (Arr.-Arr.-4) Su.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

507, 508, 509. Seminar in Occupational Education. (Arr.-Arr.-4 each course) Su.

Intensive study of contemporary problems, issues, trends and developments in occupational education and technology.

Team teaching in Business Education, Education, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

550. Graphic Arts in a Changing Culture. (4-0-4) Su.

Graphic Arts from an art to a technology. Emphasis upon incunabula period.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

565. History and Philosophy of Industrial Education. (4-0-4) W.

572. Innovations in Industrial Education. (4-0-4) F.

Charting the changing directions in industrial education today.

575, 576. Professional Research in Industrial Arts. (Arr.-Arr.-4 each course.)

580. Facility Planning in Occupational Education. (2-4-4) (Omitted 1970-71.)

595. Thesis. (Arr.-Arr.-4)

INDUSTRIAL TECHNOLOGY

304. Engineering Geometry and Graphics. (3-3-4) Su, S.

Advanced spatial geometry; parallel, angular and perpendicular relationship; graphical calculus; empirical equations; plane and space vectors.

Prerequisites: Proficiency in Industrial Arts 101, Mathematics 134.

305. Light Building Surveying. (0-4-2) W.

Introduction to transits, levels, measuring tools and equipment. Field work in location, elevation, and land surveys.

Prerequisites: Proficiency in Industrial Arts 101, Mathematics 131.

316. Communications Circuits and Systems. (2-4-4) F.

Functional application of electronic power supplies, audio amplifiers, transmitters and receivers.

Prerequisites: Industrial Arts 216 and 217 or permission of instructor.

370. Industrial Mechanisms. (2-4-4) F, W.

Mechanics of machinery, gearing, belting, cam, hydraulic, and pneumatic power transmitting systems.

Prerequisites: Physics 130 and Mathematics 131.

390, 391. Internship in Industry. (Arr.-Arr.-4 each course)

Employment experience in some phase of production manufacturing related to the student's option. This course may be taken only under the pass/fail option.

Prerequisites: Permission of the Head of the Department of Industrial Technology. Junior standing.

400. Applied Strength of Materials. (2-4-4) W.

Experimental analysis of mechanical properties of industrial materials. Inspection instruments and procedures.

Prerequisites: Mathematics 134; Industrial Arts 306, 222 and 116; Physics 132.

401. Office Practice and Specifications. (2-0-2) S.

Light building construction office management procedures involving design, personnel, specifications and fabrications.

402. Cost Estimating. (2-0-2) S.

Procedures in estimating material, labor and fabrication costs in light building construction.

Prerequisites: Industrial Arts 301, 302.

404. Statistical Quality Assurance. (2-4-4) S.

Prerequisites: Mathematics 134, Industrial Arts 306 and Industrial Technology 400.

416. Industrial Electronics. (2-4-4) W.

Electronic control of temperature, sound, light, humidity, fluid, time.

Prerequisite: Industrial Technology 316.

417. Instrumentation and Control. (2-4-4) S.

Measurement processes, basic tests, characteristics and capabilities of electronic instruments.

Prerequisite: Industrial Technology 316.

424. Light Building Fabrication. (3-2-4) F.

Methods, materials, and procedures in light building construction.

Prerequisites: Industrial Arts 222, 302.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**460. Physical Metallurgy. (2-4-4) F.**

Prerequisite: Industrial Technology 400.

464. Principles of Metal Casting. (2-4-4) S.

Control and prevention of casting defects, sand conditioning, and control, melting and pouring techniques.

Prerequisite: Industrial Arts 307 or 308.



SCHOOL OF MUSIC

The School of Music is a member of the National Association of Schools of Music. Membership in this Association is granted to schools which can show evidence of permanence and stability and which meet in full the standards of the Association for all the music curricula offered by the institution. The School of Music is also fully accredited by the North Central Association of Colleges and Secondary Schools and the National Council for the Accreditation of Teacher Education.

AUDITIONS

All new undergraduate students planning to elect a major in music are expected to demonstrate sufficient ability and skill in music either by audition in person or by tape recording in advance of registration. All transfer students should take the advisory-orientation examination in music theory. See the Director of the School of Music.

Note: Undergraduate courses in music are classified for curriculum selection as follows:

Studies in Performance and Composition (Applied Music): 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 126, 127, 128, 136, 137, 138, 146, 147, 148, 200, 201, 203, 204, 205, 226, 227, 228, 236, 237, 238, 246, 247, 248, 380, 381

Music Ensembles: 103, 250, 251, 252, 301, 372, 401

Music Theory and Composition: 021, 120, 130, 131, 132, 221, 222, 230, 231, 232, 347, 348, 447, 448, 454, 455, 459, 461, 462

Music Literature and History: 151, 152, 220, 225, 229, 320, 321, 322, 323, 324, 351, 352, 353, 464, 467, 468, 469, 470, 471, 474

Music Education: 240, 243, 244, 245, 328, 338, 339, 340, 362, 452, 460, 463, 465, 466, 480.

Note: Graduate courses in music are classified for curriculum selection as follows:

Studies in Performance and Composition (Applied Music): 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 516, 578

Music Theory and Composition: 517, 571

Music Literature and History: 536, 540, 541, 542, 543, 551, 581, 584, 585, 588, 589, 590, 591

Music Education: 520, 528, 556, 557, 560, 562, 563, 572, 573

Research: 545, 546, 566, 580, 595

MUSIC

UNDERGRADUATE COURSES

- *001. Voice. (Arr.-Arr.-1 or 2 or 4)
- *002. Flute. (Arr.-Arr.-1 or 2 or 4)
- *003. Oboe. (Arr.-Arr.-1 or 2 or 4)
- *004. Clarinet. (Arr.-Arr.-1 or 2 or 4)
- *005. Bassoon. (Arr.-Arr.-1 or 2 or 4)
- *006. Saxophone. (Arr.-Arr.-1 or 2 or 4)
- *007. Trumpet. (Arr.-Arr.-1 or 2 or 4)
- *008. Cornet. (Arr.-Arr.-1 or 2 or 4)
- *009. Horn. (Arr.-Arr.-1 or 2 or 4)
- *010. Trombone. (Arr.-Arr.-1 or 2 or 4)
- *011. Baritone. (Arr.-Arr.-1 or 2 or 4)
- *012. Tuba. (Arr.-Arr.-1 or 2 or 4)

* May be repeated for credit until requirements are met. A student shall receive one or two or four quarter hours of credit depending on the degree program elected, i.e., B.S. in Ed. secondary applied, B.S., or B.A.—1 q. hr. and B.S. in Ed. primary applied—2 q. hrs. B. Mus.—4 q. hrs.

- *013. Percussion. (Arr.-Arr.-1 or 2 or 4)
- *014. Violin. (Arr.-Arr.-1 or 2 or 4)
- *015. Viola. (Arr.-Arr.-1 or 2 or 4)
- *016. Violoncello. (Arr.-Arr.-1 or 2 or 4)
- *017. String Bass. (Arr.-Arr.-1 or 2 or 4)
- *018. Piano. (Arr.-Arr.-1 or 2 or 4)
- *019. Organ. (Arr.-Arr.-1 or 2 or 4)
- *020. Harpsichord. (Arr.-Arr.-1 or 2 or 4)
- *021. Composition. (Arr.-Arr.-1 or 2 or 4)

Note: Auditions are required for initial placement in applied music courses.

- **103. Recital. Every quarter. (No credit.)

120. Basic Music for Classroom Teachers. (4-0-4)

A study of basic music theory.

For elementary and junior high majors.

- 126, 127, 128. Class Instruction in Piano. (2-0-1 each course) 126-Su, F, W; 127-F, W, S.

A course for students with little or no previous piano study. Auditions are required for initial placement.

- 130, 131, 132. Music Theory. (4-0-4 each course) 130-F; 131-W; 132-S.

The study of scales, modes, intervals, basic harmony, rhythm, and key relationships. Aural understanding is developed through dictation and sight singing.

Must be taken in sequence.

- 136, 137, 138. Class Instruction in Voice. (2-0-1 each course) 136-Su, F; 137-F, W; 138-W, S.

Beginning vocal instruction for all not assigned to studio lessons.

- 146, 147, 148. Class Instruction in Strings. (4-0-2 each course) 146-Su, F, W; 147-Su, W; 148-S.

A study of beginning instrumental technique.

- 151, 152. Preliminary Survey of Music. (2-0-2 each course) 151-Su, F, S; 152-W.

A study of selected works of music literature from the Renaissance through the twentieth century.

One of these two courses required of all music majors.

* May be repeated for credit until requirements are met. A student shall receive one or two or four quarter hours of credit depending on the degree program elected, i.e., B.S. in Ed. secondary applied, B.S., or B.A.—1 q. hr. and B.S. in Ed. primary applied—2 q. hrs. B. Mus.—4 q. hrs.

** It is required that all students with a major in music reserve the Float B period on Tuesdays for music convocations and recitals.

200. Class Instruction in Clarinet, Flute and Saxophone. (4-0-2) Su, W, S.

A study of beginning instrumental technique.

201. Class Instruction in Oboe and Bassoon. (4-0-2) Su, W, S.

A study of beginning instrumental technique.

203. Class Instruction in Percussion. (4-0-2) Su, W, S.

A study of beginning instrumental technique.

204. Class Instruction in Trumpet and French Horn. (4-0-2) Su, W, S.

A study of beginning instrumental technique.

205. Class Instruction in Trombone, Baritone and Tuba. (4-0-2) Su, W, S.

A study of beginning instrumental technique.

220. The Role of the Black in Western Music. (4-0-4) Su.

A course emphasizing the Black man's contribution, including jazz and folk music.

May be applied toward the humanities requirement.

221, 222. Fundamentals of Music. (4-0-4 each course) 221-F, W; 222-W, S.

Continuation of Music 120.

Prerequisite: Music 120. Required of elementary majors with an Area I or II concentration in music. Must be taken in sequence.

225. Music Literature for Elementary Teachers. (4-0-4)

Development of skills in listening to and understanding major forms and styles of Western Music suitable for use in the elementary general music program.

Prerequisite: Music 120 or equivalent. Required of elementary majors with an Area I or II concentration on music.

226, 227, 228. Class Instruction in Piano. (2-0-1 each course) 226-Su, F, W; 227-Su, W, S; 228-S.

An intermediate course for students with previous piano study. Auditions are required for initial placement.

Prerequisite: Music 128 or permission of instructor.

229. Introduction to Music Literature. (4-0-4)

A course intended to develop intelligent and pleasurable listening abilities. A wide range of musical forms and periods is covered.

Not open to music majors or minors.

230, 231, 232. Music Theory. (4-0-4 each course) 230-F; 231-W; 232-S.

A study of the contrapuntal and harmonic materials of music, and the development of aural skills.

Prerequisite: Music 132. Must be taken in sequence.

- 236, 237, 238. **Class Instruction in Voice.** (2-0-1 each course) 236-F; 237-F, W; 238-W, S.

The second year of study designed for vocal secondary students and those not qualified for private instruction.

Prerequisite: Music 138 or equivalent.

240. **Laboratory in Music Education.** (2-0-2) F, W, S.

Directed observations and individualized experiences in participation in all kinds of music learning situations at all grade levels.

- 243, 244, 245. **Vocal Diction.** (2-0-1 each course) 243-F; 244-W; 245-S.

The study of the vocal diction of English, Italian, Spanish, German, and French song literature.

Prerequisite: Three quarters of Applied Voice, or equivalent.

- 246, 247, 248. **Basic Keyboard Skills.** (2-0-1 each course) 246-F, 247-W; 248-S.

These courses develop basic functional skills in transposition, harmonization, and sight reading.

250. **Ensemble, Band.** (4-0-1)

(1 q. hr. may be repeated for a maximum of 9 q. hrs.)

251. **Ensemble, Chorus.** (4-0-1)

(1 q. hr. may be repeated for a maximum of 9 q. hrs.)

252. **Ensemble, Orchestra.** (4-0-1) F, W, S.

(1 q. hr. may be repeated for a maximum of 9 q. hrs.)

301. **Accompanying.** (Arr.-Arr.-1)

This course consists of vocal or instrumental accompanying.

Prerequisite: Permission of instructor.

320. **History and Literature of Music.** (4-0-4) F, S.

The development of music from the ancient times through the Renaissance.
Not open to music majors or minors.

321. **History and Literature of Music.** (4-0-4) Su, F, W.

Music from the baroque through the classical period.
Not open to music majors or minors.

322. **History and Literature of Music.** (4-0-4) W, S.

Music from the romantic period to the present.
Not open to music majors or minors.

323. **Music in World Cultures: Western Folk and Traditional Music.** (4-0-4) F.

A survey which includes African music south of the Sahara.
May be applied toward the humanities requirement.

324. Music in World Cultures: Near Eastern, Asian and Pacific. (4-0-4) W.

A survey of non-Western music cultures.

May be applied toward the humanities requirement.

328. Music in Elementary Schools. (4-0-4)

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Music 120. For elementary education majors.

338. Music in the Allied Arts. (4-0-4) S.

A study of the aesthetic experience emphasizing music, but also concerned with the relationship of the arts.

Open only to music majors and minors.

Prerequisite: One course in philosophy and two courses in each of the following areas: art history and appreciation; English literature; history; music history and literature; and music theory.

339. Methods of Teaching Music in Elementary Schools. (4-0-4) W.

A study of the objectives, methods, and materials of music education in the elementary grades.

Prerequisite: Admission to teacher education. For music majors and minors.

340. Methods of Teaching Music in Secondary Schools. (4-0-4) F.

Methods and materials appropriate for junior and senior high school. Emphasis is on the instrumental program but includes general music, literature and theory.

Prerequisite: Admission to teacher education and junior standing.

347. Orchestration. (4-0-4) F.

Beginning practical experience in scoring for orchestra.

348. Advanced Orchestration. (4-0-4) (Omitted 1970-71.)

A study of instruments of the orchestra and their usage in orchestral writing.

351. History and Literature of Music. (4-0-4) F.

Development of music from ancient times through the Renaissance.

Open only to music majors and minors.

352. History and Literature of Music. (4-0-4) W.

Development of music from the baroque through the classic periods.

Open only to music majors and minors.

353. History and Literature of Music. (4-0-4) Su, S.

Development of music from the romantic period to the present.

Open only to music majors and minors.

362. Piano Pedagogy. (4-0-4) F.

The basic skills and knowledge needed in teaching group and private piano.

Prerequisite: Two years of applied piano or permission of instructor.

372 (472). Opera Workshop. (4-0-2) Su, W, S.

Musical theater involving staging, acting, costuming, and singing.

Prerequisite: Permission of the instructor. May be taken four times for credit by the undergraduate.

380. Choral Conducting and Materials. (4-0-4) F.

A study of conducting techniques, organizations, score reading and interpretation. The class serves as a laboratory chorus.

381. Instrumental Conducting and Materials. (4-0-4) W.

A study of baton technique, score reading, and rehearsal technique for instrumental organizations.

401. Chamber Ensemble. (Arr.-Arr.-1)

The study and performance of ensemble literature for vocal, piano, and instrumental groups.

Prerequisite: Permission of instructor.

447. Analysis and Form in Music. (4-0-4) W.

A study of the structure of music, the elements of musical form, and the relationship between structure (form) and content.

Prerequisite: Music 232.

448. Analysis and Form in Twentieth Century Music. (2-0-2) S.

A study of musical structure in the twentieth century, emphasizing the balance between tradition and innovation.

Prerequisite: Music 447.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**454. Choral Arranging. (4-0-4) S.**

A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations.

Prerequisite: Music 232 or equivalent.

455. Band Arranging. (4-0-4) S.

A course in scoring and arranging materials for instrumental ensembles.

459. Stage Band Arranging. (4-0-4) S.

A course dealing with the basic problems and techniques involved in arranging for a stage band.

Prerequisite: Music 232 or equivalent.

460. Marching Band Procedure. (4-0-2) F.

Rudiments of marching, band pageantry, and field maneuvers.

461. Sixteenth Century Counterpoint. (4-0-4) F.

A basic study of techniques in polyphonic literature. Includes the styles of Palestrina and the English madrigalists.

Prerequisite: Music 232.

462. Eighteenth Century Counterpoint. (4-0-4) W.

A study of contrapuntal harmonic practices, including inventions, canon, fugue, and forms based upon the chorale.

Prerequisite: Music 232.

463. Administration of Instrumental Organizations. (4-0-2) Su.

A study of administrative problems which apply particularly to the instrumental teacher.

464. Church Music. (4-0-4) (Omitted 1970-71.)

A historical review of hymnody, psalmody, and choral and keyboard literature in relation to current worship practices.

465. Techniques for Developing and Training Stage and Dance Bands in the High School. (4-0-2) Su.

A course dealing with basic problems in organization, development, and training of the high school stage and dance band.

Prerequisites: Music 200, 204, or permission of instructor.

466. Vocal Pedagogy. (4-0-4) W.

Writings of recognized authorities on the teaching of singing, coupled with observations.

Prerequisite: 6 quarters of instruction in singing.

467. English and Italian Song Literature. (2-0-2) S.

The study of the English and Italian song literature from the seventeenth century to the present.

Prerequisite: Music 243 or permission of the instructor.

468. German Song Literature. (2-0-2) Su.

The study of the German lied.

Prerequisite: Music 244 or permission of the instructor.

469. French and Spanish Song Literature. (2-0-2) F.

The study of the French and Spanish song literature of the nineteenth and twentieth centuries.

Prerequisite: Music 245 or permission of the instructor.

470. Music in the Classic Era. (4-0-4) S.

A critical appraisal of music of the period, emphasizing distinctively classical features.

Prerequisites: Music 351, 352, 353.

471. Music in the Romantic Era. (4-0-4) (Omitted 1970-71.)

A critical appraisal of the music of the period, emphasizing distinctively romantic features.

Prerequisites: Music 351, 352, 353.

474. Symphonic Literature. (4-0-4) (Omitted 1970-71.)

A survey of orchestral music from the Mannheim and Viennese schools through the twentieth century.

480. Workshop in Music. (12-0-1) Su.

Literature techniques, pedagogy, and style of various media. May be offered in piano, voice, orchestral or band instruments, and ensemble. The course is one week in duration.

A student may earn a maximum of four quarter hours credit for four such different experiences.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

516. Advanced Conducting and Performance Practices. (4-0-4) Su, S.

A study of style (in instrumental and vocal ensemble music) as it pertains to problems of the conductor.

Prerequisite: Music 380 or 381, or equivalent.

517. Analytical Techniques. (4-0-4) Su, W.

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 447.

520. Teaching Music Theory. (4-0-4) Su, F.

Principles, techniques, content and materials for teaching music theory courses in the freshman and sophomore years of college.

528. Aesthetics of Music. (4-0-4) Su.

A study of man's search for musical beauty: changing conceptions of beauty through various historical periods.

536. Opera and Oratorio. (4-0-4) (Omitted 1970-71.)

The development of opera and oratorio from 1600 to present.

Prerequisites: Music 351, 352, 353.

540. Keyboard Literature of the Baroque Era. (2-0-2) S.

A study of the literature of the stringed keyboard instruments from the virginalists through mid-eighteenth century.

541. Keyboard Literature of the Classic Era. (2-0-2) (Omitted 1970-71.)

A study of the piano literature by Haydn, Mozart, Clementi, Beethoven,

and Bach's sons.

542. Keyboard Literature of the Romantic Era. (2-0-2) Su.

A study of the piano literature of Schubert, Mendelssohn, Schumann, Chopin, Liszt, and Brahms.

543. Keyboard Literature of the Twentieth Century. (2-0-2) W.

A study of the piano literature of selected twentieth century composers.

545, 546. Independent Study in Music. (Arr.-Arr.-1 to 4 each course)

Student must submit outline of his plan of work to the Dean of the School of Music for approval and assignment to an instructor.

551. Music in Contemporary Culture. (4-0-4) Su.

The development of perceptual and judgmental abilities through study of forces that influence the art of music. Includes assigned listening and discussion.

Credit applicable only to the Group III requirement for degree M.S. in Ed.

556. Pedagogy of Woodwinds. (4-0-2) Su.

An advanced course designed to strengthen the knowledge, methods, and techniques of the woodwind instruments.

557. Pedagogy of Brass and Percussion. (4-0-2) W.

An advanced course to strengthen the knowledge, methods, and techniques of the brass and percussion instruments.

560. Music in the Elementary School. (4-0-4) (Omitted 1970-71.)

Advanced course in the teaching of music in the elementary school.

**562, 563. Foundations and Principles of Music Education. (4-0-4 each course)
562-Su; 563-F.**

Systematic treatment of the total music education program.

566. Introduction to Research in Music. (4-0-4) Su, F.

An introduction to the various aspects of the musical discipline, intended to enable the student to think and write intelligently about his field.

572, 573. Class Piano Pedagogy and Internship. (4-0-4 each course) 572-Su, F; 573-W.

A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes.

Prerequisite: Music 362 or permission of instructor.

578. Performance in Music. (4-0-4)

Areas of special interest in preparation for the performance major.

580. Seminar in the Problems of Music Education. (Arr.-Arr.-2 to 4)

Special problems in music education planned on an individual basis.

581. Music of the Twentieth Century. (4-0-4) F.

The chief musical developments in Western Europe and the Americas from 1900 to the present.

584. Music in the Renaissance Era. (4-0-4) (Omitted 1970-71.)

A critical appraisal of music of the period, emphasizing distinctively Renaissance features.

Prerequisites: Music 351, 352, 353.

585. Music in the Baroque Era. (4-0-4) W.

A critical appraisal of music of the period, emphasizing distinctively Baroque features.

Prerequisites: Music 351, 352, 353.

588, 589. Seminar in Music History. (4-0-4 each course) 588-S; 589-Su.

Intensive study of special topics dealing with the eras of the Middle Ages, Renaissance, and Baroque; Classic, Romantic, and Twentieth Century.

590. History of Music Theory, Greek to 1550. (4-0-4) S.

An examination of various theoretical systems embracing concepts of mode, tone, tuning and temperament from the Greeks through Tinctoris.

591. History of Music Theory, 1550 to Present. (4-0-4) Su.

An examination of tonal theoretical systems in the western culture from 1550 to the present. Included is meantone and equal temperaments.

595. Thesis. (Arr.-Arr.-4)

Note: Auditions are required for initial placement in the following applied music courses.

*651. Voice. (Arr.-Arr.-1 or 2)

*652. Flute. (Arr.-Arr.-1 or 2)

*653. Oboe. (Arr.-Arr.-1 or 2).

*654. Clarinet. (Arr.-Arr.-1 or 2)

*655. Bassoon. (Arr.-Arr.-1 or 2)

*656. Saxophone. (Arr.-Arr.-1 or 2)

*657. Trumpet. (Arr.-Arr.-1 or 2)

*658. Cornet. (Arr.-Arr.-1 or 2)

*659. Horn. (Arr.-Arr.-1 or 2)

*660. Trombone. (Arr.-Arr.-1 or 2)

*661. Baritone. (Arr.-Arr.-1 or 2)

* A student shall receive one or two quarter hours of credit depending on the degree program elected, i.e., M.S. in Ed.—1 q. hr. or M.A.—2 q.hrs. The respective courses may be repeated for a total of 4 q. hrs. in the M.S. in Ed. program and for a total of 8 q. hrs. in the M.A. program.

- *662. Tuba. (Arr.-Arr.-1 or 2)
- *663. Percussion. (Arr.-Arr.-1 or 2)
- *664. Violin. (Arr.-Arr.-1 or 2)
- *665. Viola. (Arr.-Arr.-1 or 2)
- *666. Violoncello. (Arr.-Arr.-1 or 2)
- *667. String Bass. (Arr.-Arr.-1 or 2.)
- *668. Piano. (Arr.-Arr.-1 or 2)
- *669. Organ. (Arr.-Arr.-1 or 2)
- *670. Harpsichord. (Arr.-Arr.-1 or 2)
- *671. Composition. (Arr.-Arr.-1 or 2)

STUDIES IN PERFORMANCE AND COMPOSITION (APPLIED MUSIC)

In the major applied field, at least several years of study prior to college entrance are required. Private instruction is offered in composition; strings: violin, viola, violoncello, and contrabass; brasses: cornet, trumpet, French horn, trombone, baritone, and tuba; woodwinds: flute, clarinet, oboe, saxophone, and bassoon; percussion; voice, piano; organ; harpsichord. In the case of organ, the student must demonstrate facility on piano before acceptance.

Applied music courses yield variable credit, depending upon the curriculum elected. For the Bachelor of Arts and the secondary applied for the Bachelor of Science in Education curricula one quarter hour credit shall be given for one-half hour of individual instruction per week and one hour of daily practice; for the Bachelor of Science in Education curriculum for the primary applied two quarter hours of credit, wherever applicable, shall be given for one hour of individual instruction per week and one hour of daily practice (generally students are expected to complete the minimum requirement over a period of eleven quarters); and for the Bachelor of Music curriculum the student may register for up to four quarter hours of credit for one hour of individual instruction and two hours of daily practice. Courses in composition are also similar in plan.

Courses in any applied subject may be repeated for additional credit. However credit earned in excess of that required for the particular curriculum which the student is pursuing may not be used to satisfy the minimum applied music requirements of that program. Such credit shall be considered as elective.

The student's progress in his principal applied subject shall be evaluated each year by the faculty of the department in which he is enrolled. At the conclusion of the sixth quarter of applied music, all students will be required to take a junior standing examination. A student may not be considered a junior in applied music nor may he present a junior or senior recital without passing this examination.

Minimum applied requirements for the degree B.S. in Ed. are as follows:

* A student shall receive one or two quarter hours of credit depending on the degree program elected, i.e., M.S. in Ed.—1 q. hr. or M.A.—2 q. hrs. The respective courses may be repeated for a total of 4 q. hrs. in the M.S. in Ed. program and for a total of 8 q. hrs. in the M.A. program.

Instrumental Music Option

- A. Instrumental Principal (Wind, String, or Percussion)—15 q. hrs.
Piano—3 q. hrs.
Voice—3 q. hrs.
- B. Keyboard Principal—22 q. hrs.
Band or Orchestral Instrument—3 q. hrs.
- C. Composition Principal—15 q. hrs.
Piano—6 q. hrs.
Voice—6 q. hrs.

Vocal Music Option

- A. Vocal Principal—15 q. hrs.
Piano—6 q. hrs.
- B. Keyboard Principal—15 q. hrs.
Voice—6 q. hrs.
- C. Composition Principal—15 q. hrs.
Piano—6 q. hrs.
Voice—6 q. hrs.

General Music Option

- A. Instrumental Principal—8-12 q. hrs.
Piano—3 q. hrs.
- B. Keyboard Principal—8-12 q. hrs.
Voice—3 q. hrs.
- C. Vocal Principal—8-12 q. hrs.
Piano—3 q. hrs.
- D. Composition Principal—8-12 q. hrs.
Piano—3 q. hrs.

Instrumental Music Secondary

Band or Orchestral Instrument—3 q. hrs.

Vocal Music Secondary

Voice—3 q. hrs.

A candidate for the degree Bachelor of Music must select a principal applied music medium. Minimum applied music requirements are as follows:

Performance Option

- A. String or Wind Instrument Principal—48 q. hrs.
Secondary Piano—3 q. hrs.
- B. Keyboard Principal (Piano or Organ)—48 q. hrs.
- C. Vocal Principal—48 q. hrs.
Secondary Piano—6 q. hrs.

Music History-Literature Option

- A. Instrumental or Vocal Principal—24 q. hrs.
Secondary Piano—6 q. hrs.

Music Theory-Composition Option

- A. Instrumental or Vocal Principal—24 q. hrs.
Secondary Piano—6 q. hrs.

CREDIT ORGANIZATIONS IN MUSIC

Elementary education majors may elect a maximum of four quarter hours of credit in choral ensembles. Non-music majors may earn no more than four quarter hours of credit toward graduation in chorus, orchestra, or band. However, music majors and minors may apply a maximum of nine quarter hours of credit toward graduation for such ensemble courses taken.

No more than two quarter hours of credit may be earned in a single quarter regardless of the number of organizations in which the student participates.

Minimum ensemble requirements for music majors for the degree B.S. in Ed. are:

Instrumental Option—6 q. hrs. credit in instrumental organizations. (A student with a keyboard principal may elect either instrumental or choral organizations.)

Choral Option—6 q. hrs. credit in choral organizations.

General Option—3 q. hrs. credit in choral and instrumental organizations.

Minimum requirements for music minors:

Instrumental Option—3 q. hrs. credit in instrumental organizations.

Choral Option—3 q. hrs. credit in choral organizations.

The music major is encouraged to participate in at least one ensemble during each quarter of residence.

CHORUS

Open to all qualified singers. Four meetings per week. Membership by audition. On Wednesdays at 4:00 o'clock the Chorus forms the nucleus of an all-University Choral Union for the study and performance of Oratorios, Masses, and Cantatas.

MARCHING BAND

The marching band performs during the football season for all home games and usually takes one out-of-town trip. Membership is open to all students.

CONCERT BAND

The concert band functions as a musical unit for study and performances of all types of band literature. Membership is open to all students.

SYMPHONIC WINDS

A select 40 piece wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

PEP BANDS

Three pep bands perform alternately at all home basketball games. Personnel are selected from the Symphonic Winds and Concert Band.

ORCHESTRA

The orchestra is open to student string, wind, and percussion players. Many instruments are furnished to supply a complete instrumentation.

SYMPHONETTE

A select "little symphony" for the performance of the highest quality orchestral literature. Membership is open to faculty, students and area residents. Membership is selected by audition.

NON-CREDIT MUSICAL ORGANIZATIONS

CHAMBER SINGERS

An ensemble of mixed voices for the study and performance of vocal chamber music dating from 1500 to the present. Audition required.

CHAMBER GROUPS IN INSTRUMENTAL MUSIC

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature. These groups appear publicly and are regularly in rehearsal.

COLLEGIUM MUSICUM

A group organized for the purpose of reading, study, and performance of seldom-heard works. Vocal and instrumental forces, either separate or at times in combination, are employed.

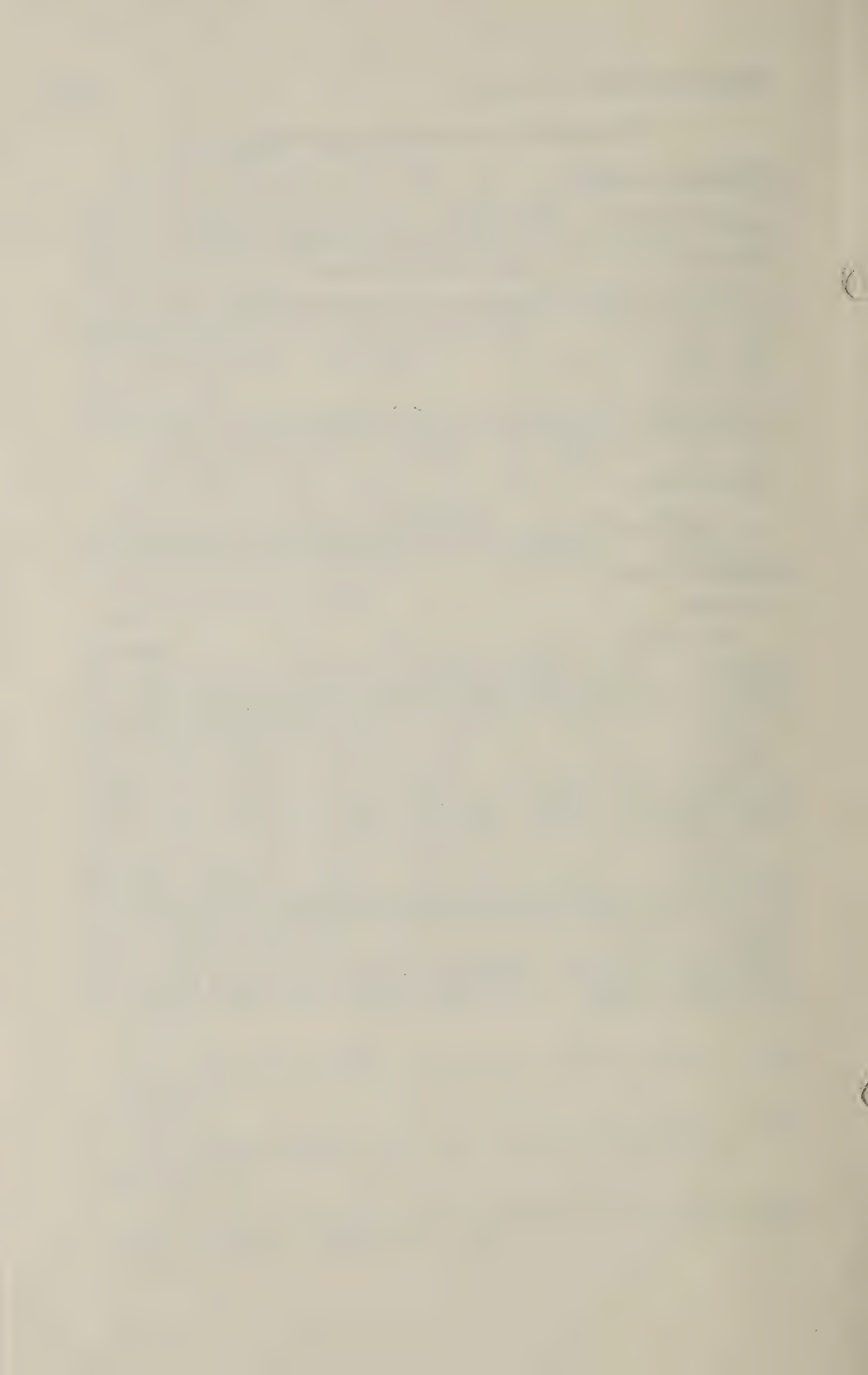
STAGE BAND

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held one evening each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

RECITALS

Each student graduating with a major in music in the Bachelor of Science in Education degree program is required to present appropriate partial junior and senior recitals demonstrating his musical growth and artistry. All students, except freshmen, are required to appear (each year) in the series of student recitals in order to gain experience in musical performance. Students in this degree program may substitute for the junior and/or senior recital a project in either teaching or conducting an ensemble. Such substitution is subject to the approval of the Dean of the School of Music and the head of the department involved. The General Music Option does not require a senior recital.

Students with an option in performance in the Bachelor of Music degree program shall present a half-recital in the junior year and a full recital in the senior year. Students with an option in either Music Theory-Composition or Music History-Literature shall present appropriate projects in lieu of the junior and senior recitals. Further, the performance major shall be required to perform a minimum of four times on student recitals in addition to presenting a Junior recital and Senior recital. The student recital requirements must be completed before the quarter in which the Senior recital is given.



XI. STATISTICS

SUMMARY OF ENROLLMENTS

Spring Quarter, 1969 through Winter Quarter, 1969-70

UNIVERSITY

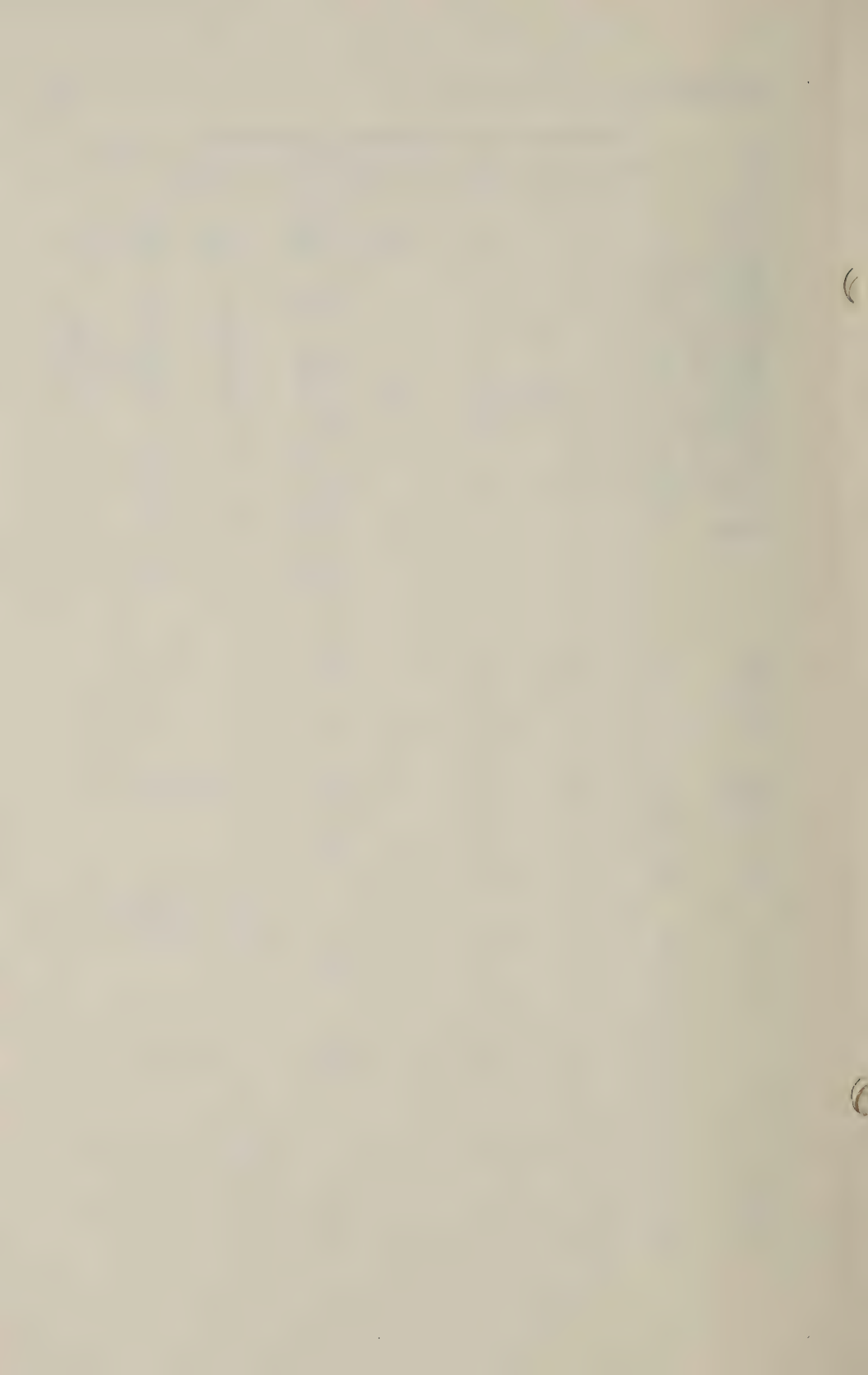
<i>Full-Time, On Campus</i>		<i>Spring</i>	<i>Summer*</i>	<i>Fall</i>	<i>Winter</i>
Seniors :	Men	706	420	740	795
	Women	658	441	648	661
	Total	<u>1364</u>	<u>861</u>	<u>1388</u>	<u>1456</u>
Juniors :	Men	783	301	892	907
	Women	729	405	879	857
	Total	<u>1512</u>	<u>706</u>	<u>1771</u>	<u>1764</u>
Sophomores :	Men	760	236	777	739
	Women	797	284	908	851
	Total	<u>1557</u>	<u>520</u>	<u>1685</u>	<u>1590</u>
Freshmen :	Men	657	286	929	896
	Women	863	348	1300	1210
	Total	<u>1520</u>	<u>634</u>	<u>2229</u>	<u>2106</u>
<i>Graduates:</i> Fifth Year	Men	81	439	127	131
	Women	44	278	64	63
	Total	<u>125</u>	<u>717</u>	<u>191</u>	<u>194</u>
Sixth Year	Men	10	50	11	9
	Women	0	13	2	1
	Total	<u>10</u>	<u>63</u>	<u>13</u>	<u>10</u>
Total :	Men	2997	1732	3476	3477
	Women	3091	1769	3801	3643
	Total	<u>6088</u>	<u>3501</u>	<u>7277</u>	<u>7120</u>
<i>Part-Time, On Campus</i>					
Seniors :	Men	22	71	16	36
	Women	24	64	24	21
	Total	<u>46</u>	<u>135</u>	<u>40</u>	<u>57</u>
Juniors :	Men	5	41	8	8
	Women	16	58	16	21
	Total	<u>21</u>	<u>99</u>	<u>24</u>	<u>29</u>

* Includes eight and ten week enrollments.

Sophomores :	Men	3	26	6	11
	Women	15	33	14	21
	Total	18	59	20	32
Freshmen:	Men	10	23	5	30
	Women	30	58	21	32
	Total	40	81	26	62
Graduates:					
Fifth Year	Men	193	74	211	169
	Women	159	70	186	168
	Total	352	144	397	337
Sixth Year	Men	73	17	73	47
	Women	25	2	30	20
	Total	98	19	103	67
Workshops :	Men	—	51	—	—
	Women	—	117	—	—
	Total	—	168	—	—
Total	Men	306	303	319	301
	Women	269	402	291	283
	Total	575	705	610	584
Total, On Campus	Men	3303	2035	3795	3778
	Women	3360	2171	4092	3926
	Total	6663	4206	7887	7704
Full-Time Equivalent (Resident)		6321	3881	7522	7365
<i>Part-Time, Off Campus</i>	Men	56	—	89	—
	Women	172	—	189	—
	Total	228	—	278	—
Total University	Men	3359	2035	3884	—
	Women	3532	2171	4281	—
	Total	6891	4206	8165	—
Full-Time Equivalent		6397	3881	7614	7365
LABORATORY SCHOOL	Boys	253	123	255	254
	Girls	260	108	260	260
	Total	513	231	515	514

SUMARY OF DEGREES AWARDED
September 1, 1968, through August 31, 1969

<i>Degree</i>	<i>Nov.</i> <i>1968</i>	<i>March</i> <i>1969</i>	<i>May</i> <i>1969</i>	<i>August</i> <i>1969</i>	<i>Total</i>
Specialist in Education	1	—	4	2	7
Master of Arts	5	—	15	11	31
Master of Science	—	1	2	11	14
Master of Science in Education	24	8	24	110	166
Bachelor of Arts	5	5	13	12	35
Bachelor of Science	13	23	36	46	118
Bachelor of Science in Business	28	32	95	61	216
Bachelor of Science in Education	137	118	380	219	854
Bachelor of Science in Home Economics	—	—	6	—	6
Bachelor of Science in Industrial Technology	—	—	1	3	4
Totals	213	187	576	475	1451



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EASTERN ILLINOIS UNIVERSITY FOUNDATION

The Eastern Illinois University Foundation is a non-profit corporation chartered by the State of Illinois and authorized by the Board of Governors of State Colleges and Universities for charitable and educational purposes, and to otherwise serve the University.

The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents and other materials having educational, artistic, or historical value. Such gifts should be conveyed to the Foundation, with proper stipulation as to their use. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms for gifts and memorials. The establishment of scholarships is particularly welcomed. Any gifts or bequests can be given suitable memorial names.

The present officers of the Foundation are:

Mrs. Lloyd Thudium, President, Charleston

Mr. Glen Hesler, Vice-President, Mattoon

Mr. Ogden Brainard, Attorney, Charleston

Mr. Harley J. Holt, Treasurer, Eastern Illinois University,
Charleston

Mr. Kenneth E. Hesler, Executive Director, Eastern Illinois
University, Charleston

Mr. Harry Read, Secretary, Eastern Illinois University,
Charleston

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EASTERN ILLINOIS UNIVERSITY
General Catalog — 1974



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THE STUDENT'S RESPONSIBILITY

All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisors and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the University decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the *Eastern News* and posted on the official bulletin board near the Office of the Dean of Student Academic Services. Students are responsible for knowing these changes.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through school.

THE UNIVERSITY POLICY ON NON-DISCRIMINATION

The University is committed to a policy of non-discrimination with respect to sex, age, color, race, religion, and national origin in all facets of University life and administration.

The person charging this material is responsible for its return to the library from which it was withdrawn on or before the **Latest Date** stamped below.

Theft, mutilation, and underlining of books are reasons for disciplinary action and may result in dismissal from the University.

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ANNOUNCEMENTS

FOR

SUMMER 1975

AND

1974-75 TERMS

THE STUDENT'S RESPONSIBILITY

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EASTERN ILLINOIS UNIVERSITY

CATALOG

APRIL, 1974



75th YEAR

ACADEMIC RECORD 1974-75 TERMS

ANNOUNCEMENTS

FOR

SUMMER 1975

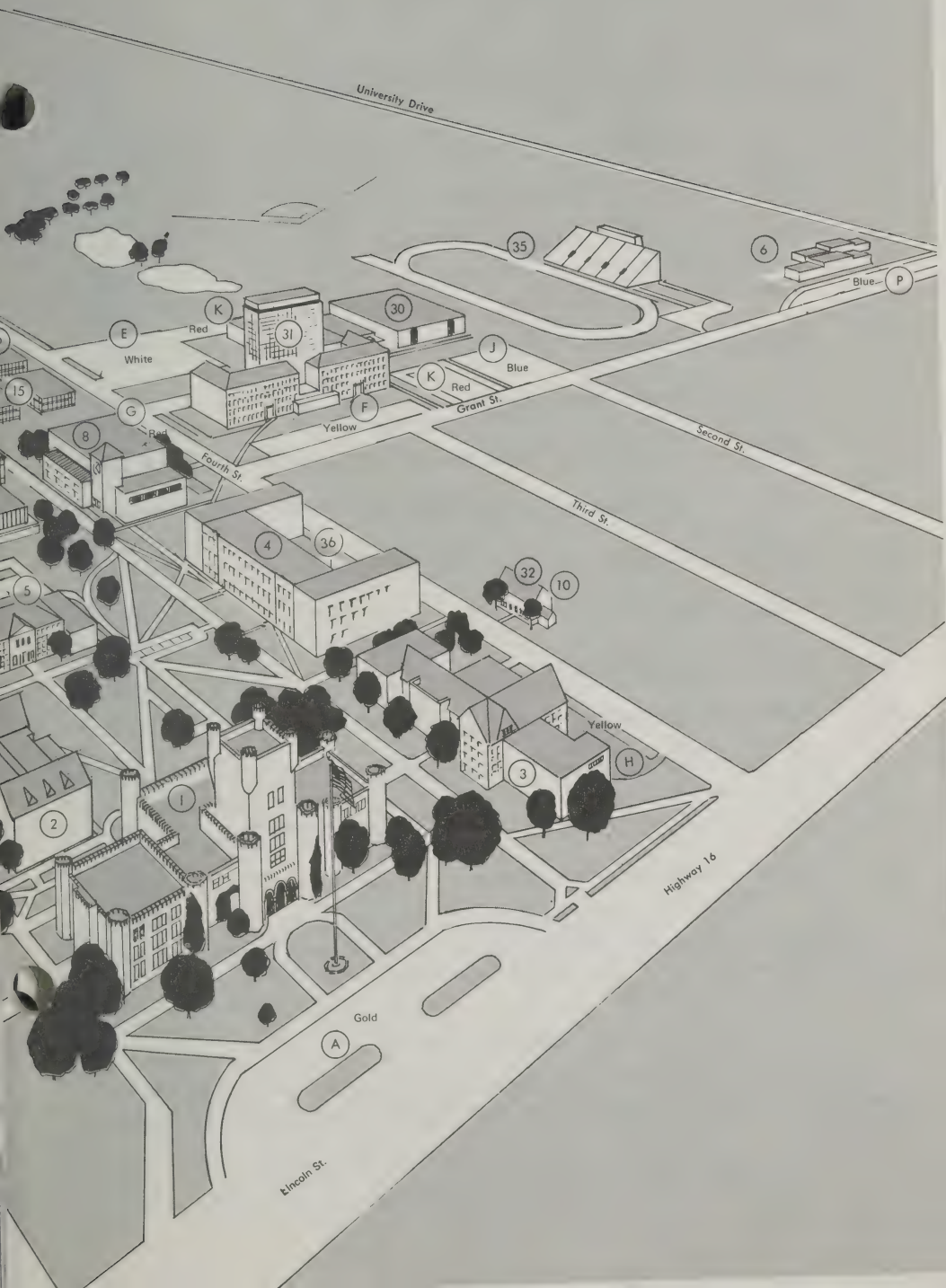
AND

1974-75 TERMS



1. Old Main - Admissions
(Livingston C. Lord Administration Building)
2. Blair Hall
3. Pemberton Hall
4. Science Building
5. Admissions (Student Services Building)
6. Physical Plant Services Building
7. Power Plant
8. McAfee Gymnasium
9. University Union
10. Custodian Quarters (Booth House)
11. Telephone and Security Building
12. Buzzard House
13. Clinical Services Building
14. Fine Arts Center
15. Ford Hall
16. McKinney Hall
17. Weller Hall
18. Gregg Triad
19. Booth Library
20. Life Science Vivarium
21. Greenhouse
22. Life Science Building
23. Laboratory School
24. Applied Arts-Education Center
25. Coleman Hall
26. Taylor Hall
27. Thomas Hall
28. Andrews Hall
29. Lawson Hall
30. Lantz Health, Physical Education and
Recreation Building
31. Lincoln-Douglas-Stevenson Halls
32. Booth House
33. University Apartments
34. Carman Hall
35. Stadium-Track
36. Phipps Lecture Hall

Parking Areas Indicated by
Letter and Color Ward



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This catalog includes information concerning admission, enrollment, fees, housing, course offerings, etc., as it pertains to the academic year 1974-75.

NOTICE

As necessary, supplements containing important changes in this catalog will be issued. When issued, such supplements will be distributed during the first two weeks of each term.

UNIVERSITY CALENDAR

1974 - 75

FALL SEMESTER 1974

Early Graduate Registration	August 24
Parents' Convocation	August 25
Regular Registration	August 26, 27
Classes Begin	August 28
Labor Day Observance - No Classes	September 2
Last Day to Submit Add Requests	September 3
Last Day to Apply for Graduation	September 6
Last Day for Course Withdrawal Without Grade ...	September 6 (5 p.m.)
Begin Automatic W Upon Course Withdrawal	September 7
Last Day for Automatic W Upon Course Withdrawal	October 10
Begin W or WF Upon Course Withdrawal	October 11
Mid-Term	October 18
Last Day to Apply for Teacher Certification	November 1
Constitution Examination	November 5
Last Day to Withdraw from Courses or University ..	November 22 (5 p.m.)
Thanksgiving Break	November 27, 28, 29
Final Examinations	December 16, 17, 18, 19, 20
Semester Closes	December 21

SPRING SEMESTER 1975

Early Graduate Registration	December 14
Regular Registration	January 14, 15
Classes Begin	January 16
Last Day to Submit Add Requests	January 21
Last Day to Apply for Graduation	January 24
Last Day for Course Withdrawal Without Grade ...	January 24 (5 p.m.)

Begin Automatic W Upon Course Withdrawal January 25
 Constitution Examination February 25
 Last Day for Automatic W Upon Course
 Withdrawal February 28 (5 p.m.)
 Begin W or WF Upon Course Withdrawal March 1
 Mid-Term March 7
 Last Day to Apply for Teacher Certification March 14
 Spring Vacation March 20 through 31
 Last Day to Withdraw from Courses or University.. April 18 (5 p.m.)
 Commencement May 11
 Final Examinations May 12, 13, 14, 15, 16
 Semester Closes May 17

SUMMER TERM 1975

Early Graduate Registration May 10
 Regular Registration June 9, 10
 Classes Begin June 11
 Last Day to Submit Add Requests June 13
 Last Day to Apply for Graduation June 16
 Last Day for Course Withdrawal Without Grade .. June 16 (5 p.m.)
 Begin Automatic W Upon Course Withdrawal June 17
 Last Day to Apply for Teacher Certification June 27
 Last Day for Automatic W Upon Course
 Withdrawal July 2 (5 p.m.)
 Begin W or WF Upon Course Withdrawal July 3
 Independence Day Observance - No Classes July 3, 4
 Mid-Term July 8
 Constitution Examination July 15
 Last Day to Withdraw from Courses or University.. July 24 (5 p.m.)
 Commencement August 3
 Final Examinations August 4, 5, 6, 7
 Term Closes August 8

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES

APPOINTED MEMBERS

Felicitas Berlanga, Normal	1973-1975
Howard V. Phalin, Wilmette	1969-1975
E. Leland Webber, Wilmette	1969-1975
Jeffrey R. Ladd, Crystal Lake	1971-1977
Peter Lardner, Rock Island	1971-1977
Carol Lohman, Springfield	1971-1977
James J. Cicero, Chicago	1973-1979
Leon Davis, Chicago	1973-1979

EX OFFICIO MEMBER

Michael J. Bakalis, Superintendent of Public Instruction

OFFICERS

Howard V. Phalin, Chairman
Jeffrey R. Ladd, Vice Chairman
Ben L. Morton, Executive Officer

EASTERN ILLINOIS UNIVERSITY

CHARLESTON

CHIEF ADMINISTRATIVE OFFICERS

(Date of joining staff in parentheses)

PRESIDENT

Gilbert C. Fite, Ph.D., University of Missouri (1971)

PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS

Peter R. Moody, Ph.D., Cambridge University (1967)

VICE PRESIDENT FOR STUDENT AFFAIRS

Glenn D. Williams, Ph.D., The Ohio State University (1960)

VICE PRESIDENT FOR BUSINESS SERVICES

Harley J. Holt, M.S., University of Wisconsin (1963)

VICE PRESIDENT FOR ADMINISTRATIVE AFFAIRS

Martin Schaefer, Ph.D., The University of Iowa (1958)

I. GENERAL INFORMATION

PURPOSE

Since the time of its founding Eastern Illinois University has developed a comprehensive and stimulating curriculum which offers an education in the liberal arts and sciences and in professional areas. The primary aim of the University's program is to provide excellent instruction and an educational environment which will produce broadly educated, responsible citizens who are prepared to serve and to lead in a free society.

ACCREDITATION

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Council on Education and the American Association of Colleges for Teacher Education. The programs in Music are accredited for the B. Mus. and M.A. by the National Association of Schools of Music. The B.S. degree in chemistry is accredited by the American Chemical Society. The B.S. degree in home economics is accredited by the American Home Economics Association.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County Airport. The city has a population of 16,400.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established at Charleston, Illinois, the Eastern Illinois State Normal School. In response to its changing role in higher education, the institution became Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the General Assembly granted to the institution the power of conferring degrees. The first master's degrees were awarded in 1952, and the first Specialist in Education degree was awarded in 1966.

THE CAMPUS

The grounds of the University cover an area of over 316 acres of landscaped, generally level land. In addition to the campus proper, the University also includes two wooded tracts near Charleston, the 126 acre Rocky Branch Area and the Burgner ten acres, both of which are used for nature study and life science research.

The chief buildings on the campus and the units included in them are as follows:

Applied Arts-Education Center: Educational Psychology and Guidance; School of Home Economics; School of Industrial Arts and Technology.

Buzzard House: Financial Aids.

Charles H. Coleman Hall: Departments of Economics, English, Foreign Languages, History, Philosophy, Political Science, Sociology-Anthropology, Speech-Communication.

Charles P. Lantz Health, Physical Education and Recreation Building: Departments of Health Education, Physical Education, and Recreation. Features include archery, pistol and rifle ranges; field house; gymnasium; and swimming pool.

Clinical Services Building: Counseling and Testing Center; Department of Speech Pathology and Audiology; Health Service; Reading, Speech, and Hearing Clinics.

Fine Arts Center: School of Fine Arts.

Florence McAfee Gymnasium: Department of Physical Education.

Francis G. Blair Hall: School of Business.

Life Science Building: Departments of Botany and Zoology.

Livingston C. Lord Administration Building (Old Main): Administrative offices; Admissions; Academic Advisement; Department of Mathematics; Paul Sargent Art Gallery.

Mary J. Booth Library: Main Library; Music Room; Self-Study Materials Center.

Physical Science Building: Departments of Chemistry, Geography-Geology, Physics, and Psychology.

Robert G. Buzzard Building: Audio-Visual; Special Projects; Portion of Home Economics; School of Education.

Student Service Building: Placement; Computer Services Center; Duplicating Services; Foreign Student Advisement; Housing; Residence Hall Food Services; Student Activities and Organizations; Student Services and Administration; and Affirmative Action Officer.

Telephone and Security Building: Security staff and university telephone system.

Martin Luther King, Jr., University Union: Features include a ballroom, book store, bowling alleys, cafeteria, lounges, meeting rooms, and the Panther Lair snack shop.

Dormitory Complexes include the following buildings: Andrews Hall; Carman Hall; Douglas Hall; Ford Hall; Lawson Hall; Lincoln Hall; McKinney Hall; Pemberton Hall; Stevenson Tower; Taylor Hall; Thomas Hall; Weller Hall; and University Apartments.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of five state universities under the general jurisdiction of the Board of Governors of State Colleges and Universities, to whom the President is finally responsible for the operation and general welfare of the university.

The University is functionally organized into four areas each headed by a vice president: Academic Affairs, Administrative Affairs, Business Services, and Student Affairs.

Chief instructional units include the College of Arts and Sciences, the School of Business, the School of Education, the Graduate School, the School of Health, Physical Education and Recreation, the School of Home Economics, the School of Industrial Arts and Technology, and the School of Fine Arts. Each of these units is headed by a dean.

Faculty and student participation in university affairs is accomplished through a Faculty Senate, a Student Senate, and membership on a number of academic and administrative committees. These councils, most of which have both student and faculty members, consider and recommend policies, curricula, and procedures to the President.

DIVISION OF THE YEAR

The university year, August 24, 1974 through August 8, 1975, consists of two semesters and an eight-weeks term for undergraduates and graduates.

ALUMNI ORGANIZATIONS

Recognizing the contribution that a body of truly interested alumni can make to the development of an institution of higher learning, the University has encouraged the growth of various alumni organizations. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

The Eastern Alumni Association, established in 1905, is composed of persons who have either received degrees from this institution or completed a minimum of one term's work here.

Officers of the Alumni Association for 1973-74 are Sam Owen, Mattoon, president; James Johnson, Charleston, vice-president; and Mrs. Lori Pike, LaHarpe, secretary-treasurer.

The Executive Committee for the Association is composed of the officers and twelve other members elected for three-year terms. Committee members are Elmer Jamnik, Joliet; George Mellott, Edwardsville; Nolan Sims, Mattoon; Delmar Elder, Sullivan; Dorris Winkler, Dieterich; Mrs. Kathy Reed, Casey; Donald Neal, Charleston; Calvin Stockman, Crystal Lake; Marcel Elmer Pacatte, Waverly; Charles Hassell, Forest Park; Dwight Connelly, Quincy; John Greathouse, Mattoon.

In 1947 the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2 for one year, \$4 for two years, and \$5 for three years.

THE EASTERN ILLINOIS UNIVERSITY FOUNDATION

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents, and other materials having educational, artistic, or historical value. Such gifts should be conveyed to the Foundation, with proper stipulation as to their use. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms for gifts and memorials. The establishment of scholarships is particularly welcomed. Any gifts or bequests can be given suitable memorial names.

Membership of the Foundation consists of 100 persons, including alumni and friends of the University. Honorary members without vote are the President of the University, the President of the Board of Governors of State Colleges and Universities, the President of the Alumni Association, the Vice President for Business Services, and the Director of Alumni Services.

The Board of Directors of the Foundation consists of nine persons elected from the general membership. The President of the University, the President of the Board of Governors, and the President of the Alumni Association are ex officio members of the Board of Directors.

The present officers of the Foundation are:

Mr. John Gehl, President, Mattoon

Mr. Donald K. Neal, Vice President, Charleston

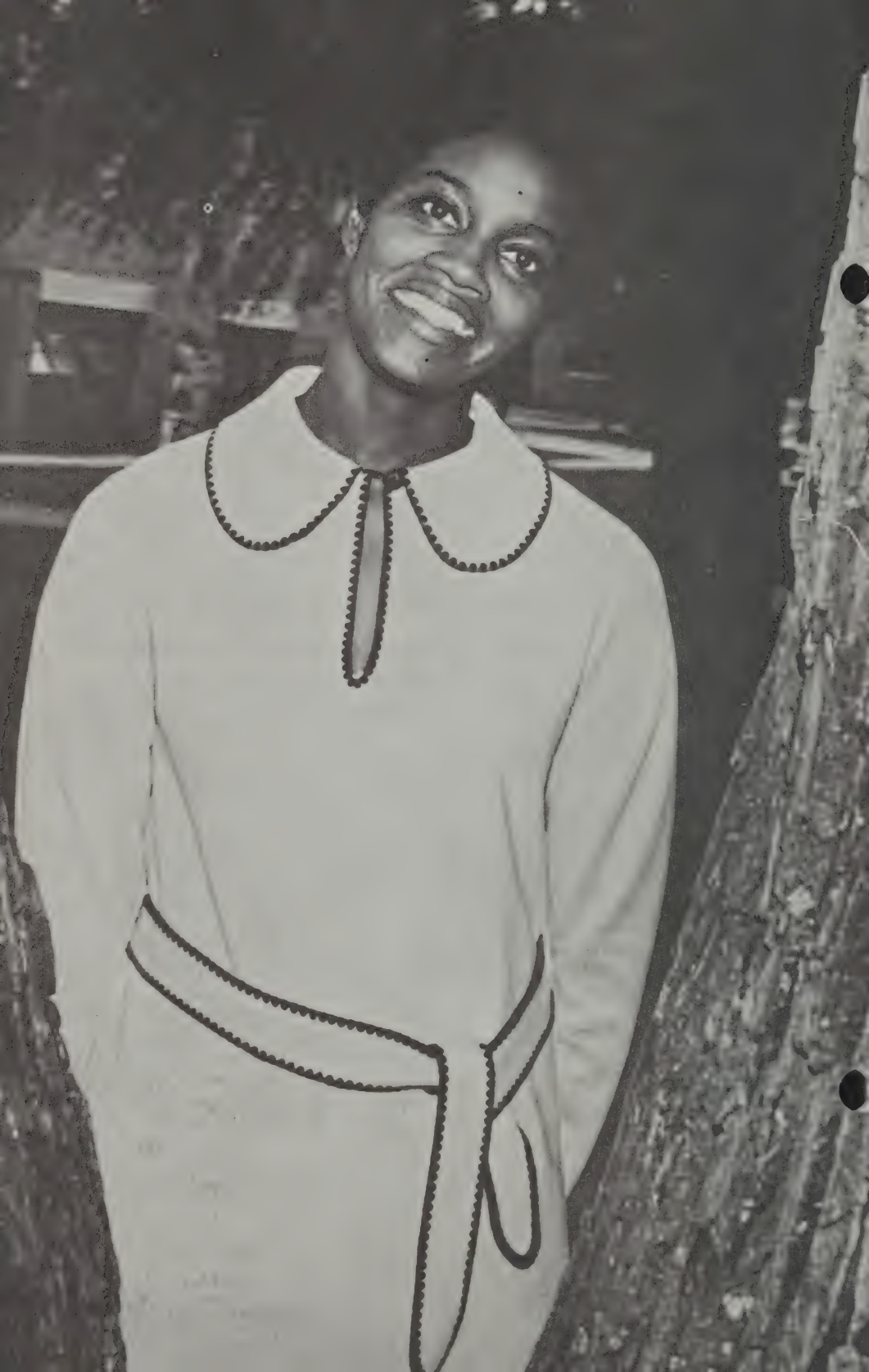
Mr. Ogden Brainard, Attorney, Charleston

Mr. Harley J. Holt, Treasurer, Eastern Illinois University, Charleston

Mr. John Morrissey, Assistant Treasurer, Eastern Illinois University,
Charleston

Mr. Kenneth E. Hesler, Executive Director, Eastern Illinois University,
Charleston

Mr. Harry Read, Secretary, Eastern Illinois University, Charleston



II. STUDENT LIFE, ACTIVITIES AND SERVICES

LIVING ACCOMMODATIONS

The Housing Program at Eastern Illinois University is based on the concept that there is a relationship between the student's living environment and the achievement of his educational goals as well as the development of personal and social maturity. This environment must lead to the student's self-direction and the assumption of personal responsibility.

PARIETAL RULE

Notwithstanding any other facilities which now or at any time hereafter may be available for students and faculty of said university (with the exception only of the covenants and agreements made by the Board of Governors of State Colleges and Universities for the security of the outstanding bonds heretofore issued for said university), that it will require, and adopt parietal rules and regulations designed to assure the maximum use of the said project, and existing university facilities, until all of the bonds have been fully paid as to both principal and interest.

UNIVERSITY HOUSING POLICIES

All Eastern Illinois University students classified as freshmen (less than 30 semester hours of credit) and sophomores (less than 60 semester hours) are required to live in University Residence Halls. Students who have not achieved the required hours at the beginning of the Fall Semester will be required to live in the halls for the entire academic year, from August 24 through May 17, plus the following summer session if the students are in attendance. Exceptions to this policy include students who are married, live at home with parents within a fifty mile radius, veterans with one or more years of active service, and students who are twenty-one years of age or older. Exceptions for other reasons must be requested in writing to the Dean, Student Housing, and approved by his office.

RESIDENCE HALLS

University Residence Halls and Food Services are designed to provide for the student's education outside of the classroom. The basic philosophy is the development of the total student. Rooms are primarily for double occupancy although a few single and triple rooms are available, as are the four-and-six-man suites in Stevenson Tower. Residence Hall accommodations are as follows:

Andrews	480	McKinney	150
Carman North	384	Pemberton	201
Carman South	432	Stevenson	360
Douglas	194	Taylor North	295
Ford	150	Taylor South	297
Lawson	480	Thomas	438
Lincoln	194	Weller	150

An application for residence hall room and board (20 meals per week) should be requested from the Office of the Dean, Student Housing. (Application for admission to the university does not constitute an application for housing.) A \$25 Housing Security Deposit is required when making application and serves as a damage fee and a guarantee of contract fulfillment. Residence Hall accommodations are granted on a priority basis, determined by the date of application and deposit. More specific information regarding the University Residence Halls will be mailed upon request, by the Office of the Dean, Student Housing.

MARRIED HOUSING

The 154 University Apartments consist of 100 one-bedroom and 54 efficiency apartments. Utilities, including telephone, are furnished by the University. The apartments are designed to provide inexpensive living facilities for married students.

Rates are \$96.50 per month for a one-bedroom apartment and \$86.50 per month for an efficiency apartment. Additional information may be requested from the Office of the Dean, Student Housing.

GENERAL SERVICES

COUNSELING

The Counseling Center is staffed by professional counselors and counseling psychologists who assist students with adjustment problems which may interfere with their deriving maximum benefit from their university experiences. Psychological services related to educational development, vocational choice, and personal and social adjustment are available without cost to all students.

EMPLOYMENT

The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the community. Student employment is contingent upon maintenance of satisfactory academic standing. See Section III, College Work Study Program.

INSURANCE

By action of the Board of Governors, each full-time student is assessed a fee for group health and accident insurance administered by the University to supplement services performed by the University Health Service. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available annually with premiums paid at enrollment time each session of the year. Students attending spring semester who do not intend to be

enrolled during the summer but who wish summer coverage must apply for this insurance sometime during the spring semester. Summer session insurance is in force until the following enrollment day.

Students who can produce evidence of equal or better coverage may make application for a refund of this fee by contacting: Director of Financial Aids. This application must be filed within ten days following registration day each session.

The group policy provides for the first \$500 of all reasonable hospital expenses, 80 per cent of all reasonable hospital expenses over \$500 and reasonable surgical or medical fees, as outlined in the insurance brochure, up to \$10,000 for any one accident or period of illness not exceeding one year from date of first treatment, except that emotional or mental illness payments may not exceed \$5,000. Further details are provided in a brochure available in the Office of Financial Aids.

MEDICAL

The Health Service is located in the Clinical Services Building. It renders limited medical and surgical care, supervises the periodic physical examinations, and has general oversight of health conditions of the University community.

Services provided by the Health Service are covered by student activity fees.

PLACEMENT

Registration or re-registration with the Placement Center is recommended prior to graduation for all degree candidates. The Placement Center seeks to help graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information about the applicants. It also maintains a follow-up service, including a program of visits and reports from employers and persons placed. Placement services are free to students who qualify.

Teacher Placement Services are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior standing. **Graduate Students** may register for placement if they have attended Eastern Illinois University for one term and have earned ten semester hours of graduate credit towards a master's degree. **Alumni** whose institutional records are clear may register by bringing their credentials up to date and paying a fee of \$5. The placement registration fee for graduates initiating registration more than one year after graduation is \$25.

Industrial and Business Placement Services are available to students who have attained senior standing. The Placement Center furnishes the candidate's credentials to prospective employers and offers other services fundamental to their selection of employees.

TESTING

Testing services are available to University students without charge. Aptitude, intelligence, interest, personality and other tests are often used in counseling.

The Testing Service operates an IBM 1230 test scoring machine with an attached IBM 534 card punch. Area schools may arrange for the scoring of standardized tests at a nominal charge. University faculty may arrange for the scoring of classroom tests to include item analysis at no cost. For detailed information contact the Coordinator of Testing.

INSTRUCTIONAL SERVICE

AUDIO-VISUAL SERVICES

The Audio-Visual Center provides instructional resources and accompanying services to the teaching faculty. Instructional resources including films, filmstrips, tape and disc recordings, video programs and a limited number of programmed audio and visual materials are available from a small on-campus library and from rental sources. In addition, preview services are offered to those who have need for them.

Requests for service of the Audio-Visual Center should be submitted as early as possible, particularly where materials for class use need to be rented. Usually, three weeks is necessary to get the materials from outside sources onto campus and available for the classroom.

Professional personnel are available to assist the teaching faculty in the design of instruction, and for the production of visual materials for classroom use.

The Audio-Visual Center is open daily Monday through Friday 7:30 to 5:00 p.m. and the professional staff is available to the teaching faculty from 8:00 to 5:00 Monday through Friday.

BOOK RENTAL AND SALES

Basic textbooks for courses are rented to students through the Textbook Library. Book rent is included in the registration fee.

Rented textbooks must be returned in satisfactory condition by noon of the day following the last day of the term. Damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc. A fine of \$1 per book is imposed if the student's textbook record is not clear by the close of the term.

LIBRARY SERVICES

BOOTH LIBRARY.

The Booth Library is the general library of the University and contains a book stock of over 350,000 cataloged volumes besides governmental documents, microtexts, maps, and pamphlets chosen to support the educational effort of the University. A sizeable addition to the original building was opened in 1968. All books in the library are on open shelves except those that are rare.

In the central area of the second floor are located the Circulation Department and the General Card Catalog. The Reference Department also is located near the center of the second floor. Here the students find the answers to many of their problems. There are periodicals, indexes and abstracts available as well as a collection of reference books. Special facilities such as seminar, group study, conference, and faculty study rooms and equipment for reading microtext materials are also provided on this floor. The current issues and the bound volumes of periodicals are kept on the third floor on open stacks.

The library serves as a depository for selected publications of the United States Government and for maps issued by the U.S. Army Map Service. A publisher's exhibit of textbooks for elementary and secondary schools is also provided.

Self-Study Materials Center (SMC) as a public service unit of Booth Library, located in the northwest corner of the main floor, provides the necessary environment

and resources required to pursue independent study. It has been developed to make information stored on non-print media such as phonorecords, audio tapes, etc., available to students and faculty members for various class assignments. Over 6,000 recordings serve for leisure-time enjoyment. Study carrels equipped for independent viewing and listening are also available in the Center. The SMC is open during all hours Booth Library is open.

READING IMPROVEMENT

Each term the Reading Center offers a non-credit course, Elementary Education 0990—Reading Improvement for University Students for those who recognize a need for guidance and practice with essential reading skills. Specific goals are to help students increase speed of reading, develop flexibility in reading rate, improve comprehension and practice efficient study habits. Major attention is given to vocabulary development and critical evaluation of reading materials. Classes meet at various hours to permit convenience in scheduling. Courses are free to regularly enrolled students and materials are furnished without charge.

The Reading Center accepts some children, usually from elementary schools in the area, for remedial work in reading. Graduate students taking advanced work in reading obtain practical experience in diagnosing reading difficulties, exploring causes of problems, and providing remedial instruction.

The Reading Center is located on the second floor of the Buzzard Laboratory School, Room 225.

SPEECH AND HEARING DIAGNOSIS AND CORRECTION

The Speech and Hearing Clinic is housed on the second floor of the Clinical Services Building. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvement of speech and language disorders. The services are available without charge to university students, children and adults in east central Illinois. Junior, senior, and graduate students in courses of speech and hearing obtain required clinical practice by working with these cases under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

STUDENT-FACULTY BOARDS

Student members of the student-faculty boards are appointed by the Student Senate; faculty members are appointed by the Faculty Senate. The Vice President of the Student Body and the Director, Student Activities and Organizations, or his representative, are ex officio members of all boards. The boards are as follows: Apportionment, Publications, Safety and Traffic, Communications-Media, Health Service, Intercollegiate Athletics, Sports and Recreation, and Performing and Visual Arts.

UNIVERSITY BOARD

The officers and coordinators of the University Board are named by the President of the Student Body and approved by the Student Senate. The committees are Coffeehouse, Concerts (approximately six big-name entertainers are brought to the campus each year), Fine Arts (approximately six outstanding fine-arts performers or

groups presented each year, most of them free to students with I.D. cards), Lecture (approximately six well-known lecturers on a variety of subjects are brought to the campus each year at no charge to students), Movies (low cost movies are provided every week of the school year), Personnel, Publicity, (including Parents Weekend, ice cream socials, etc.). Recreation, Homecoming, Travel, and Video Tape.

ACTIVITY FEES

Most activities under the supervision of student-faculty boards receive their support from activity fees charged all students. University Board activities are also funded by the activity fees. The allocation of funds from activity fees is made by the Appropriation Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

LECTURE SERIES

The University offers a series of several lectures each year by well-qualified speakers on topics of general interest. The lecturers are selected by a board composed of faculty and students. Various departments also engage lecturers in fields of specialized interest. No admission fee is charged.

MARTIN LUTHER KING, JR., UNIVERSITY UNION

The Martin Luther King, Jr., University Union houses a cafeteria, snack bar, game rooms, bowling alley, bookstore, ballroom, lounges, check cashing facilities, lobby shop and offices for the Director, Assistant Director, Director of the Union Food Services, and the Director of Arrangements.

The Union sponsors a variety of programs, including several recreation tournaments in bowling, billiards, bridge, chess, and table tennis. The Union and the University Board collaborate on coffeehouses and travel programs.

Organizations wishing to schedule any university facilities, other than academic space, may do so through the Scheduling Secretary located in the main office of the Union.

FORENSICS

Through the Department of Speech-Communication, students of undergraduate standing are offered the opportunity to participate in intercollegiate tournament experience in extemporaneous speaking, oratory, debate, and discussion.

Members of the forensic teams engage in competition with speakers from the major colleges and universities. Opportunity is also provided members of the teams to appear on radio and television programs throughout the Illinois-Indiana area and before civic clubs and high school assemblies.

Affiliation is maintained with several regional and national forensic organizations including: Illinois Intercollegiate Debate League, Illinois Intercollegiate Oratorical Association, Interstate Oratorical Association; American Forensic Association; and Pi Kappa Delta, the national honorary forensic fraternity.

INTRAMURAL SPEECH ACTIVITIES

Each year the Department of Speech-Communication offers any undergraduate student the opportunity to participate in an Intramural Speech Contest. This activity is designed for critical analysis and further student development in meaningful speech events.

STUDENT SPEAKER BUREAU

A Student Speaker Bureau is coordinated through the Department of Speech-Communication. Students may register with the bureau, requesting they be listed in a publication sent to service clubs and schools in the area. The bureau affords students the opportunity to appear in actual speaking situations to improve their communication ability.

THEATRE

The Department of Theatre Arts sponsors a variety of activities. Two full-length plays and a full-length oral interpretation program are presented each semester as public performances. Each week a student-directed workshop program is produced; this activity includes short plays, skits, readings and demonstrations.

Any student in the University is eligible to participate in the activities of the department. Practical experience in all phases of theatre can be obtained.

RADIO-TELEVISION

Several activities provide an introduction to the broadcast media. Each week students produce radio programs that are broadcast by stations in Illinois. The campus radio station, WELH, operated entirely by students, broadcasts more than fifty hours per week. Laboratories in television production are available in the television studios. Memberships are held in The National Association of Broadcasters and in Tau Epsilon Rho broadcast honorary. The Radio Club meets regularly to provide a nucleus for many of the radio-TV broadcasting activities. The activities mentioned above are open to all full-time students regardless of major. Interested students may contact WELH in the Speech-Communications Department.

MUSIC

Music organizations provide opportunities for musical growth through activities which in turn contribute to the life of the University. Instrumental organizations include a marching band, a concert band, a pep band, symphonic winds, a symphony orchestra, a string orchestra, and a jazz band. Other special vocal and instrumental ensembles afford additional opportunities for students to study and perform.

THE PAUL TURNER SARGENT ART GALLERY

The Paul Turner Sargent Art Gallery in Old Main brings to the campus exhibitions selected from various areas of the visual arts. These shows include paintings, ceramics, photography, sculpture, jewelry, prints, textiles — a collection is usually on display for a three week period. Special lectures and films related to the exhibitions are scheduled from time to time. This activity provides important original works for study in art classes, and adds to the cultural life of the general student on campus, community and region.

PUBLICATIONS

Student publications are a daily newspaper, the *Eastern News*; a creative magazine, the *Vehicle*; and a yearbook, the *Warbler*. The newspaper is published by a student staff with a faculty advisor. Staff positions on the *News* are open to all qualified students.

The *Warbler* is issued annually as a historical and pictorial record of the Univer-

sity year. A student editorial staff, supervised by a faculty advisor, is responsible for the publication. All qualified students are eligible for the staff.

The *Vehicle* is published three times annually. Creative material is solicited from all students.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern News*, the *Vehicle*, and the *Warbler*.

INTRAMURAL ATHLETICS AND STUDENT RECREATION

The School of Health, Physical Education and Recreation offers intramural and student recreation programs for men and women with opportunities for sharing in recreative physical activities. Participation is voluntary and open to all students. Over 30 dual, individual, and team sports are organized on an intramural basis, with teams from residence halls, fraternities, sororities and off-campus groups competing. Emphasis is also made on corecreational offerings and unstructured free-play opportunities. The Modern Dance Concert and the Synchronized Swim Show are special events in which any student may perform.

INTERCOLLEGIATE ATHLETICS

The program of intercollegiate athletics is dedicated to a belief that athletic competition promotes individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals to the end that personal growth and character will result. In addition, the acquisition of certain professional techniques and skills particularly for those who plan to coach, are objectives of the athletic program.

The University program of intercollegiate athletics for men includes football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, swimming, and soccer. The University adheres to the intercollegiate athletics policies of the North Central Association of Colleges and Secondary Schools.

The University program of intercollegiate athletics for women includes field hockey, basketball, volleyball, softball, track and field, gymnastics, swimming, tennis, golf, badminton, and fencing. The University adheres to the intercollegiate athletics policies of the Association of Intercollegiate Athletics for Women.

STUDENT ORGANIZATIONS

STUDENT GOVERNMENT

The student government is organized on the same plan as the federal government with its three branches: executive, administrative, and judicial. The student officers and the student senators are elected by popular vote. The judicial branch members are named by the Student Body President and approved by the Student Senate.

The student government is concerned with matters pertaining to student welfare, student activities, and student participation in university planning and administration.

DEPARTMENTAL CLUBS

Approximately forty recognized clubs are related to every academic department on campus. There are twenty-five honorary and professional fraternities on campus.

RELIGIOUS ORGANIZATIONS

The university-recognized religious groups are: Baptist Student Union, Christian Science Organization, Campus Crusade for Christ, Christian Collegiate Fellowship, Fellowship of Christian Athletes, Latter Day Saints Student Association, Inter-Varsity Christian Fellowship, Newman Community, Roger Williams Fellowship, Students International Meditation Society, and United Campus Ministry.

ATHLETIC ORGANIZATIONS

Varsity Club, Women's Recreation Association.

RESIDENCE HALL GOVERNMENT

The Executive or Hall Council of each residence hall is the elected governing body for the residents. Each resident is a participating member through his or her elected representative or through corridor government and activities. Residents also have the opportunity to participate through committee work including the Academic, Social, Program, Intramural and Judicial committees.

The Residence Hall Association is the coordinating body for the activities and student governments of the halls. The association consists of elected delegates from each of the residence halls. The elected representatives serve as communicators between hall governments and the Residence Hall Association. The purpose of the Association is to promote the educational aspects of the residence hall programs and to recommend policies and procedures which affect student life in the residence halls.

SERVICE ORGANIZATIONS

Alpha Phi Omega, Environmental Conservation Organization, People Encouraging People.

SPECIAL GROUPS

Association of International Students, Chess Club, College Democrats, EIU Folk and Square Dance Club, EIU Sports Parachute Club, Eastern Film Society, Eastern Veterans Association, Ski Club, University Council for United Nations, and Young Republicans.

INTERFRATERNITY COUNCIL

The Interfraternity Council is composed of the presidents of the member fraternities and one elected representative from each fraternity. The IFC aids in establishing policies related to the entire fraternity system. It cooperates with the Panhellenic Council in planning cooperative Greek affairs on-and off-campus. The following fraternities are represented on Eastern's campus:

Acacia	Eastern Illinois University Chapter
Alpha Kappa Lambda	Rho Chapter
Beta Sigma Psi	Mu Chapter
Delta Chi	Eastern Illinois University Chapter
Delta Sigma Phi	Delta Psi Chapter
Phi Sigma Epsilon	Delta Chapter

Pi Kappa Alpha
Sigma Chi
Sigma Pi
Sigma Tau Gamma
Tau Kappa Epsilon

Zeta Gamma Chapter
Eta Mu Chapter
Beta Gamma Chapter
Alpha Alpha Chapter
Gamma Omega Chapter

OTHER SOCIAL FRATERNITIES

Alpha Phi Alpha
Omega Psi Phi
Phi Beta Sigma
Kappa Alpha Psi

Theta Nu Chapter
Tau Theta Chapter
Delta Chi Chapter

PANHELLENIC COUNCIL

The Panhellenic Council is composed of the presidents of sororities and two elected representatives from each sorority. It deals with problems confronting the sororities, establishes rules for rushing, cooperates with the Interfraternity Council in planning all-Greek affairs on campus, and awards a cup each year to the sorority maintaining the highest academic standing for the preceding year. The following sororities are represented on Eastern's campus:

Alpha Gamma Delta
Alpha Omicron Pi
Alpha Sigma Alpha
Delta Zeta
Kappa Delta
Sigma Kappa
Sigma Sigma Sigma

Beta Iota Chapter
Epsilon Iota Chapter
Gamma Omega Chapter
Gamma Nu Chapter
Delta Beta Chapter
Gamma Mu Chapter
Alpha Psi Chapter

OTHER SOCIAL SORORITIES

Delta Sigma Theta
Sigma Gamma Rho
Zeta Phi Beta
Alpha Kappa Alpha

Gamma Beta Chapter

AUTOMOBILE REGISTRATION AND CONTROL

By definition, a motor vehicle, in addition to an automobile, shall include such conveyances as motor bikes, motor scooters, and motorcycles.

FRESHMAN-SOPHOMORE MOTOR VEHICLE REGULATION

No undergraduate student who has completed less than sixty semester hours shall possess, park, or operate a motor vehicle on any University street, parking lot, or property beginning with enrollment day of each term and ending with the official date of closing each term. The regulation will not be enforced against students on the day they move into the halls nor the day they leave for vacations or semester breaks. An exception to this regulation may be made for a freshman or sophomore student who is physically handicapped, or who resides with his or her parents in Charleston Town-

ship, or who can demonstrate a critical need for a motor vehicle because of employment or other circumstance.

A request for an exception to the above regulation should be addressed to Chairman, Freshman-Sophomore Motor Vehicle Regulation Committee, Student Services building, Eastern Illinois University.

REGISTRATION OF VEHICLES

It is the responsibility of each student, employee, and faculty member who drives any motor vehicle on or around the campus to register the vehicle in the Security Office.

PARKING PERMITS

Application for a parking permit should be made at the Telephone and Security Building. A committee of faculty and students review all requests and make assignments based upon such factors as distance, employment, and physical disability. The annual charge for a permit is \$20 for prime or red lots and \$10 for all other lots. A permit may be purchased on a semester or yearly basis.

UNIVERSITY TRAFFIC REGULATIONS

All state and community laws apply on campus. University parking regulations are in effect until 5:00 p.m. of the last day of examinations of each term. University holidays are excepted. Other regulations will be issued periodically by the Security Office.

TRAFFIC PENALITIES

1. **For Violations of Freshman-Sophomore Regulations.** A violator of the freshman-sophomore motor-vehicle regulation will be subject to a fine of \$50 for the first and second offenses and will be automatically suspended from the University for the third offense.
2. **For Failure to Report.** Failure to report any change which would affect parking privileges: \$5.
3. **For Falsification of Registration.** Falsification of registration: \$10 and referral to university officials for disciplinary action.
4. **For Parking Violations:** For the first parking offense, \$1; for each additional parking violation, \$5.
5. **For Moving Violations:** For the first offense, \$5; for the second, \$10; for the third moving violation, \$15. The fourth offense will result in the loss of campus parking privileges for the remainder of the academic year. A violation of this measure will result in referral to University officials for disciplinary action.

Offenses shall be considered cumulative for any and all violations cited above for the period of the automobile registration.

TOWING

Motor vehicles parked in a University lot without a valid permit may be towed away without notice at the operator's expense.

BICYCLE REGISTRATION AND CONTROL

By definition, a bicycle shall mean any two-wheeled vehicle which is propelled by human power.

REGISTRATION

It is the responsibility of each student, employee, and faculty member operating a bicycle on the campus to register the bicycle in the Security Office. Registration and parking permits are free.

PENALTIES FOR VIOLATION AND NONCOMPLIANCE

Failure to comply with registration requirements — \$1; failure to use bicycle in conformity with operational provisions — \$1; violation of parking restrictions — \$1; fourth offense — possible referral for disciplinary action.

III. STUDENT EXPENSES AND FINANCIAL AID

EXPENSES

APPLICATION CHARGE

A non-refundable charge of \$15 must accompany an application for admission as an undergraduate.

SEMESTER FEES

All fees are subject to change at the end of any year by action of the Board of Governors of State Colleges and Universities. Fees listed below must be paid on or before registration day of each term.

RESIDENCY

Generally, an unmarried student under twenty-one years of age will be considered to have the same legal residence as that of his parent(s) or guardian. Married students and/or students over twenty-one years of age not classified as residents shall continue their non-resident classification unless they establish residency.

Eligibility for resident classification ordinarily requires the establishment and maintenance of a bona fide residence in the state for at least six consecutive months immediately preceding the beginning of any term for which the student enrolls in the University. Voter registration, filing of taxes, proper license and registration for the driving and ownership of a vehicle, and other such transactions may be required to verify the intent of residence in the state.

Inquiries regarding eligibility for residency should be made to the Dean, Student Academic Services.

FEES 1974-75

Full-Time Student — A student registered for nine or more semester hours of work shall pay the following fees:

<i>Fee:</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$210.00	\$633.00
*Programs and Services	88.75	88.75
Total	\$298.75	\$721.75

Part-Time Student — A student registered for less than nine semester hours of work shall pay the following fees:

<i>Fee: (Per Semester Hour)</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$ 20.00	\$ 60.00
**Programs and Services	5.00	5.00
Total	\$ 25.00	\$ 65.00

SUMMER FEES (1975)

Full-Time Student — A student registered in the summer term for six or more semester hours of work shall pay the following fees:

<i>Fee:</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$140.00	\$422.00
***Programs and Services	57.25	57.25
Total	\$197.25	\$479.25

Part-Time Student — A student registered in the summer term for less than six semester hours of work shall pay the following fees:

<i>Fee: (Per Semester Hour)</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
Registration	\$ 20.00	\$ 60.00
**Programs and Services	5.00	5.00
Total	\$ 25.00	\$ 65.00

University Programs and Services Fees:

* *Fee:* Student Activity Fee \$18; Bond Revenue Building Fee \$33.50; Textbook Rental Fee \$14; Health Insurance Fee \$11.25; Grants-in-Aid Fee \$9; Minority Student Fee \$3.

** *Fee:* Bond Revenue Building Fee \$2.80; Textbook Rental Fee \$1.20; Grants-in-Aid Fee \$.75; Minority Student Fee \$.25. A part-time student may purchase an activity ticket for the regular price of \$18. He may not purchase health and accident insurance.

*** *Fee:* Student Activity Fee \$12; Bond Revenue Building Fee \$22.25; Textbook Rental Fee \$9; Health Insurance Fee \$6; Grants-in-Aid Fee \$6; Minority Student Fee \$2.

CONTINUING EDUCATION

Continuing Education fees are \$24 per semester hour with an additional charge of \$3 per course for textbook rental. When textbooks cannot be supplied by the University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

MISCELLANEOUS FEES AND CHARGES

Late Enrollment Fee. An extra fee of \$10 is charged to a student who enrolls after the enrollment dates shown in the catalog or who fails to pay all fees on enrollment day. This fee is non-refundable. No enrollments are accepted after the sixth calendar day following the first day of classes.

Student Identification Card. Student I.D. cards are issued to new students their first term of enrollment upon presentation of the fee card indicating payment of registration fees. A fee of \$2 is charged for a student-photo I.D. or \$.25 for a non-photo card. Full-time students' I.D. cards are validated at no charge for all subsequent terms of attendance upon presentation of the paid fee card for each term of enrollment. A lost I.D. card should be reported immediately to the I.D. Office, Student Personnel Services, and application made for a duplicate card. An additional \$2 is charged for a lost or mutilated, temporary or permanent I.D. card.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office. The fee of \$20 for graduate degree candidates and \$15 for undergraduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation is the tenth calendar day following the first day of classes of the semester at the end of which the candidate plans to graduate.

Transcript Fee. The University will furnish one free transcript of the academic record of a student when requested to do so. A fee of \$1 will be charged for each transcript issued after the first one. An additional \$.50 fee will be charged for each extra copy of the transcript prepared at the same time. Transcripts will be issued only for students whose university records are clear.

General Library Service Fee. All library materials must be returned and records cleared by the end of each term. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations. Students with uncleared records for lost or unreturned books from the previous term cannot charge out library materials.

Textbook Library Fee. A fee of \$1 per book is charged if the student's record in the Textbook Library is not clear by noon following the last day of the term. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, high-lighting, annotating, adding other marginalia, etc.

Chemistry Breakage Ticket. A deposit of \$5 is required for a breakage fee in all laboratory courses in chemistry. Refund is made of the amount not used for actual breakage after the locker is checked out.

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the Martin Luther King, Jr., University Union. The cost per lock is \$2.45.

Charges for Materials. Fees are paid for materials used in certain courses.

RESIDENCE HALL FEES

Housing Security Deposit: A \$25 housing security deposit must accompany an application for residence hall accommodations. The deposit will be held by the University as a damage fee and a guarantee of contract fulfillment. The deposit will be refunded, upon written request, according to the terms of the residence hall contract.

Room and Board Charges: Charges for board and room in the University residence halls are: \$525 for the fall semester, and \$510 for the spring semester, if paid in full. There is an additional \$3 per semester charge if paid in installments, on dates set by the University. Failure to make the advance payment according to the terms of the residence hall contract could result in cancellation of the residence hall contract and forfeiture of the Housing Security Deposit. Cancellation of a hall contract after the deadline date for each term could result in the forfeiture of the advance payment and the Housing Security Deposit.

Room and board charges for the summer session and for camps and conferences will be forwarded upon request. With the exception of the summer term, it is understood that a student contracts for room and board for the full University academic year unless the contract is cancelled by the deadline dates included in the contract.

The University reserves the right to increase residence hall rates, if necessary, during an academic year, with the understanding that at least ninety (90) days notice will be given.

Payment Dates and Late Payment Fees: Dates for full payment or installment payments of room and board are included in the residence hall contract. In the event the student cannot make payment on or before the deadline date, a deferment may be requested through the residence hall counselor or the office of the Dean, Student Housing. Failure to make payment on the assigned date or the deferral date will result in the assessment of a \$10 late payment fee.

OFFICIAL RECEIPTS

Official receipts for fees must be preserved by the student during the term involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

REFUNDS

WITHDRAWAL

Regular. If a student withdraws from the University during a term by completing the procedure described in Section V and if the initiation and completion of the withdrawal is made through the office of the Dean, Student Personnel Services, during the first ten calendar days following the first day of classes for the term, the Registration Fee will be refunded upon written request to the Registration Office. There will be no refund of the Service Fee. If the withdrawal is initiated at a later date, there is no refund of any fees.

Summer Session. During the summer session the withdrawal must be initiated and completed during the first five calendar days following the first day of classes in order to have the Registration Fee refunded. No refund is made for withdrawal initiated after this date.

PRE-ENROLLMENT

Non-Enrollment. If a student pre-enrolls and pays his fees prior to the regular enrollment date for the term but does not appear for classes, all fees will be refunded if notice is given in writing to the Registration Office five calendar days prior to the announced day of enrollment. If such notice is not given within the prescribed period but is given during the first ten calendar days (five calendar days for summer term) following the first day of classes for the term, only the Registration Fee will be refunded.

Change in Load. Upon written request, a student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days (five calendar days for summer term) following the first day of classes will be refunded, upon request, the difference between his Registration Fee and the course fee for those courses constituting his part-time load; there will be no refund of the Service Fee.

DENIED ADMISSION

If a student enrolls early and pays his fees prior to the regular enrollment day, but is subsequently denied admission to the University, all fees will be refunded.

BOARD AND ROOM

Refund of the advance payment for any term will be made upon receipt of a written request addressed to the Dean, Student Housing, and postmarked on or before the advance payment date for that specific term. Cancellations after the deadline date could result in the forfeiture of the advance payment and the Housing Security Deposit unless the residence halls are full to capacity as of the tenth day of the term. Advance payments are refunded if the student is not admitted to the University or if the student is dismissed from the University for academic reasons.

Room rent is not refundable, except for reasons stated above or in the residence hall contract. A student who withdraws during a term will be charged room rent for the term, unless the halls are filled to capacity. Board is refunded from the end of the week in which the student leaves the residence hall and the University.

FINANCIAL AIDS

STATE SCHOLARSHIPS AND GRANTS

Illinois State Scholarship Commission Scholarship and Grant Monetary Awards. Under authority granted by the Illinois General Assembly, the ISSC administers a program of monetary awards for students in the state of Illinois who attend one of the more than 175 ISSC approved colleges, universities, and hospital schools of nursing in Illinois. To be eligible for a monetary award the applicant must:

- a. Be a citizen or permanent resident of the United States.
- b. Be a resident of the state of Illinois.
- c. Be eligible to enroll as a full-time undergraduate student and be in good academic standing in an ISSC approved college, university, or hospital school of nursing as of September 1.
- d. Be enrolled for at least twelve semester hours.

- e. Not have received a baccalaureate degree or completed 150 semester hours or 225 quarter hours of college level course work or not have received more than eight semesters or twelve quarters of aid under the ISSC program.
- f. Demonstrate financial need as determined by the Commission.
- g. Must have submitted the required application form by the established deadline (currently September 1).

Monetary awards range from \$150 per academic year to a maximum of \$1,300 (as currently established by the General Assembly) but cannot exceed the amount of tuition and mandatory fees paid by all students enrolled at an institution.

Students enrolled in secondary schools may obtain the application from their high school counselor or principal; students enrolled in a college or a university or school of nursing may obtain the application form from the Office of Financial Aids at that institution; students not enrolled in any educational program may obtain an application by writing to the Director of Financial Aids at the institution of their choice, or from many social agencies and public aid offices in the county of their residence, or by writing directly to Illinois State Scholarship Commission, Box 607, Deerfield, Illinois 60015. For those enrolled as students, applications should be made no later than February 1 of each year. For those not enrolled as students, applications should be made immediately upon the decision to attend college. A college choice must be indicated at the time of application, but this choice may be changed at any time prior to September 15.

Military Scholarship. See Section on **Veterans Benefits.**

General Assembly Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of whom will receive a scholarship to the University of Illinois and the other individual to be awarded a scholarship to any other state-supported university designated by the member. A General Assembly Scholarship pays full tuition plus the student activity fee assessed by the institution. The student must pay any remaining fees assessed by the University. Application may be made any time directly to the legislator, who makes the appointment through the Office of the State Superintendent of Public Instruction.

Special Education Teacher Education Scholarship. Students enrolling or enrolled in a special education curriculum are eligible to receive this scholarship. This scholarship may be issued by the State Superintendent of Public Instruction on recommendation of the Superintendents of Educational Service Regions (formerly County Superintendents of Schools).

Special Education Grants. Special Education Grants are awarded by the Department of Scholarship Services, 212 East Monroe, Springfield, Illinois 62706, to students pursuing training in special education at approved colleges and universities. The number of awards varies annually and the recipient must work in the field of special education at least one-half year for each year of the grant. The trainee must be either a college junior or senior. The value of the grant is \$500 per year plus tuition for undergraduates and \$2,000 per year plus tuition for graduate fellows.

UNIVERSITY AWARDS

Talented Student Awards. Established by the Board of Governors of State Colleges and Universities to encourage the development of unique student talents. Tuition (registration fees) is waived for students receiving the awards. The awards go primarily to incoming new students who give promise of unique talents in art, athletics, forensics, music, broadcasting, and student publications. Nominations for the awards are made by department chairmen and faculty advisors.

Grants-in-Aid. Eastern offers in excess of 100 grants-in-aid annually to students who show promise or demonstrate a talent in fields which require public presentation of that talent. Among these fields are art, athletics, debate, journalism, music, and women's physical education. Approved by the Board of Governors of State Colleges and Universities, the talent scholarship program is financed through a student grants-in-aid fee.

Foreign Student Scholarship. Established by the Board of Governors of State Colleges and Universities, the number of awards available to students from other countries is quite limited. Such awards are based on scholarship achievement, academic potential, personal character and financial need. The scholarship pays only out-of-state fees and does not include room and board which must be paid by the student.

Disadvantaged Student Scholarship. Established by the Board of Governors of State Colleges and Universities to encourage students from low income families to apply for admission to Eastern. The registration fees are waived for a student receiving the scholarship. Approval is granted by the Director of Financial Aids.

Minority Student Scholarship. Administered by the Director of Financial Aids from funds derived from the Minority Student Fee paid by each student as part of his enrollment costs. Basis of award: demonstrated financial need and minority membership.

SPECIAL AWARDS

Achievement Fund Scholarship Award. Established in 1965 to provide financial assistance to outstanding students. The award presently goes each year to one or more students who have attained at least sophomore standing and who need at least one more year of study to receive a bachelor's degree. Selection of the recipient, including the determination of financial need, is made by the Financial Grants Committee.

Alexander Briggs Memorial Award. Established by Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the L. C. Lord Administration Building. The award is made annually to a business major who has completed at least one year of college work with not less than a B average and who is selected by the faculty of the School of Business on the basis of outstanding personal character and interest in the field of business and business education.

Business Alumni Award. Established by the alumni of the School of Business. It is made annually to a junior business major whose personal character, scholastic achievement, and interest in the fields of business and education promise service of distinction in the field of business education. Selection is made by the faculty of the School of Business.

Charles H. Coleman Scholarship. Established through the Department of History in memory of Dr. Charles H. Coleman, former professor and Head of the Department of History, and a distinguished Lincoln scholar. The award goes annually to an undergraduate or graduate history major.

Gretchen Sue Denton Scholarship. Established in memory of Gretchen Sue Denton, a student at Eastern at the time of her death in 1971. An annual award is presented to a recreation major of junior standing who gives definite promise of making a substantial contribution to the field of recreation.

Thomas R. Drury Scholarship. Established in memory of Thomas R. Drury, an alumnus of Eastern. The award is presented annually to a student admitted to

Eastern's Graduate School and who plans to pursue a career in instructional media. The selection committee is composed of representatives of the School of Education, Instructional Media Services, and the Illinois Audio-Visual Association.

G. B. Dudley Award. Established by Tilford Dudley in memory of his father, Dr. G. B. Dudley, who was closely associated with the University. The fund makes a minimum of \$200 available each spring for awards to outstanding students in the fundamental sciences: botany, chemistry, physics, and zoology. The recipients are chosen by the chairmen of these four departments.

Leo J. Dvorak Memorial Award. Established in memory of Dr. Leo J. Dvorak, late Director of the School of Music. The award is presented to a junior music major who shows promise of becoming an outstanding teacher in public school music. Selection of the recipient is made by the faculty of the Department of Music.

Charles A. Elliott — Industrial Arts Education Award. Established by Dr. Charles A. Elliott, a member of the Eastern faculty from 1945 to 1973. The award will go annually to a junior, senior, or graduate student in Industrial Arts Education who shows promise of making a worthwhile contribution as a teacher of industrial arts.

Ann Frommel Memorial Award. A scholarship for outstanding students in botany, zoology, and chemistry, established by Mr. and Mrs. Albert E. Frommel, Charleston, Illinois, in memory of their daughter. The award is made to an outstanding student who has completed at least his freshman year of college work and has maintained at least a B average in all academic subjects.

Thomas A. Grud Scholarship. Established by the family and friends of the late Thomas A. Grud who was killed in Vietnam on Christmas Day, 1967. The award goes annually to a male student who is earning a portion of his college expenses but who is in need of additional financial assistance.

Hobart F. Heller Scholarship. Established in honor of Dr. Hobart F. Heller, Vice President for Instruction and a member of the Eastern faculty for thirty-six years, who retired in 1967. The award will go annually to a student who, by reason of scholarship, responsible character, sense of purpose, growth, and service to the University community during his first three years, gives promise of a life of distinguished service and leadership. Selection of the recipient is made by a committee headed by the Dean, Student Personnel Services.

Bobbie King Memorial Scholarship. Established in 1966 by Mr. and Mrs. Karl King of Charleston, Illinois, in memory of their daughter. The award will go annually to a junior or senior demonstrating outstanding achievement in the study of foreign languages.

Martin Luther King, Jr., Scholarship. Established by the Eastern Illinois Chapter of the American Association of University Professors in memory of Dr. Martin Luther King, Jr. The award goes annually to one or more Eastern students who are "living examples of the ideals and values expressed by Martin Luther King."

Walter A. Klehm — Industrial Arts Education Award. Established in honor of Dr. Walter A. Klehm, a member of the Eastern faculty from 1938 until his retirement in 1970. Dr. Klehm was the first Dean of the School of Industrial Arts and Technology. The award goes annually to an industrial arts major who demonstrates promise as a teacher of industrial arts subjects.

Charles P. Lantz Scholarship. Established in memory of Dr. Charles P. Lantz, Director of Athletics at Eastern from 1911 to 1952. The award is made annually to one or more persons who will be seniors the following year, who have demonstrated outstanding athletic achievement, who have shown evidence of leadership qualities, and who have demonstrated above-average scholastic ability.

Livingston C. Lord Memorial Scholarships. Established by the Alumni Association of the University in memory of Livingston C. Lord, who served as President, 1899-1933. It is the University's highest award for scholarship.

The scholarships are awarded annually at commencement to one or more junior or senior students. The students' character, scholarship, and skill in teaching must promise service of distinction in the field of education.

Florence McAfee Scholarship. Established by faculty and alumnae in memory of Dr. Florence McAfee, Head of the Department of Physical Education for Women from 1924 to 1962. The award goes annually to a second semester sophomore or junior woman physical education major who demonstrates the qualities of scholarship, leadership, and professional excellence as exemplified by Dr. McAfee. Selection of the recipient is made by a committee from the Department of Physical Education.

Isabel McKinney Scholarship. Established in memory of Dr. Isabel McKinney, Head of Eastern's Department of English from 1922 to 1945. The award goes annually to a person who has demonstrated high scholastic achievement and has the qualifications to enroll in the English graduate program at Eastern. Selection of the recipient is made by the Scholarship Committee of the Department of English.

Louise C. Miller Scholarship. Established through the Department of Music in honor of the late Miss Louise C. Miller, a singing teacher for many years in the Chicago public school system, the award goes annually to a deserving student of music.

Raymond L. Modesitt Mathematics Scholarship. A scholarship established by the wife and daughter of the late Mr. Modesitt, a member of the Eastern mathematics faculty from 1912 to 1927. The \$500 award goes annually to a junior or senior in mathematics.

Winnie Davis Neely Memorial Award. Established by Sigma Tau Delta, national professional English fraternity, in memory of Winnie Davis Neely, a member of the English Department, 1934-1952. An award is made annually to the university student who submits the best manuscript in the literary contest sponsored by the student literary publication and Sigma Tau Delta.

Estelle Ruth O'Brien Memorial Mathematics Scholarship. Established in 1967 by Dr. Maynard O'Brien and his son in memory of their late wife and mother, Estelle Ruth O'Brien. Mrs. O'Brien was a mathematics teacher in the public schools. The award will go annually to a mathematics major enrolled at Eastern or to a high school graduate who has expressed in writing an intent to enroll as a mathematics major at Eastern.

President's Award. Established in 1973, the award goes annually to one or more freshman students who rank near the top of their class after one year of college work. Only students who have done all of their college work at Eastern are eligible for consideration.

Emma Reinhardt Award. Established in 1962 by members of Beta Psi Chapter of Kappa Delta Pi in recognition of the contributions of service, guidance, and leadership of Dr. Emma Reinhardt, counselor to the chapter for thirty-one years. The award is made annually to the highest ranking junior pursuing the degree Bachelor of Science in Education.

Donald A. Rothschild Award. Established in memory of Dr. Donald A. Rothschild, a member of the Eastern faculty from 1934-1967 and Head of the Department of Psychology. The annual award is given to a psychology major who demonstrates the potential for making a significant contribution to psychology.

Paul Turner Sargent Scholarship Award. Established by the family and friends of the late Paul Turner Sargent, nationally known artist and a 1906 Eastern graduate. The award is made to an art major or minor who has completed the second semester of the sophomore year.

Walter Merritt Scruggs Scholarship. Established in memory of Dr. Walter M. Scruggs, former Head of the Department of Zoology and first Director of the Division of Life Sciences at Eastern. The award goes annually to an outstanding student in the life sciences who has demonstrated a definite interest in research or teaching.

Mr. and Mrs. William Craig Simmons Memorial Award. Established by members of the Simmons family, the award is made annually to a junior business major on the basis of outstanding personal character, scholastic achievement, and interest in the fields of business and business education. Selection is made by faculty members of the School of Business.

Kate Booker Stapp Scholarship. Available to women students in teaching curricula who are widows (or whose husbands are incapacitated) with at least one child under the age of eighteen. The fund was established in 1948 by a gift of \$400 from Miss Helen Stapp in honor of her mother. Applications are made to the Director of Financial Aids.

Ernest L. Stover Scholarship. Established in honor of Dr. Ernest L. Stover, former Head of the Department of Botany. The award goes annually to a botany major of junior or senior classification who has demonstrated scholastic achievement and shows promise as a teacher or research person. Selection of the recipient is made by a committee from the Department of Botany.

Edson H. Taylor Award. Established in honor of Dr. E. H. Taylor, professor of mathematics at Eastern from 1899 to 1945. It is awarded annually to a junior or senior who is majoring in mathematics. The recipient of this award is chosen by the faculty of the Mathematics Department on the basis of excellence of scholarship in mathematics.

Annie L. Weller Award. Established in memory of Miss Annie L. Weller, late Head of the Geography Department. The award is made annually to a graduating senior planning to pursue graduate study prior to a career in teaching. Eligible candidates must be majoring in the humanities, social sciences, or natural sciences and must have demonstrated superior scholarship ability.

Howard DeForest Widger Award. Granted annually by the Alumni Association to a senior English major selected by the faculty members of the English Department. The award is given for outstanding personal character and scholastic achievement in the field of English.

LOANS

The Adelia Carothers Fund. This fund was established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during their junior and senior year. The interest rate is two per cent during enrollment. At termination of enrollment the rate increases to six per cent. The fund is administered by the Dean, Student Personnel Services.

Elementary and Junior High School Student Teaching Loan Fund. This loan fund was established with funds contributed by students of Eastern State High School during World War II. Loans up to \$100 may be made to students who need the funds during their student teaching semester. No interest is charged when payment is made within one year. Application must be made to the Dean, School of Education.

Emergency Loan Fund. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety days. No interest will be charged. To be eligible, a student must be in residence at the University, at least one term and be in good standing. Application is made in the Office of Financial Aids.

Illinois Congress of Parents and Teachers Loan Fund. In September of 1954 the Illinois Congress of Parents and Teachers established a loan fund of \$1,000. Loans from this fund on either a short or long-term basis may be secured by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within one year of termination of enrollment. Interest then begins at three per cent. Students should contact the office of Financial Aids for application forms.

Illinois Guaranteed Loan Program. The Illinois General Assembly has authorized an Illinois loan program to guarantee student loans made by commercial lenders.

An eligible student who has been accepted for enrollment in college may borrow from a minimum of \$150 to the maximum amounts stated below. There is no age restriction; a minor is eligible to enter into a loan contract and to assume the responsibility for his own indebtedness. Payment must begin no less than nine months after the student either graduates or ceases full-time study.

MAXIMUM LOAN AMOUNTS

Freshman year	\$1,000
Sophomore year	1,500
Junior year	2,500
Senior year	2,500
First-year graduate study	2,500

Application forms and additional information about this program are available from participating lending institutions (banks, building and loan associations, credit unions, and in the Office of Financial Aids).

Elizabeth K. Lawson Emergency Loan Fund for Women. Established by friends of Emeritus Dean of Women Elizabeth K. Lawson. The amount of a loan is limited to \$100 for a maximum period of ninety days. No interest will be charged if repaid within that period. To be eligible, a student must be female and in good standing. Application is made in the Office of Financial Aids.

The Florence McAfee Loan Fund. Physical education majors and minors, alumnae, and staff established this fund in honor of Dr. Florence McAfee. Any woman student, either majoring or minoring in physical education, is eligible to borrow from the fund. When need arises, students should contact a member of the Physical Education staff.

National Direct Student Loan Fund. The National Direct Student Loan program was established by the Educational Amendments of 1972. Eastern Illinois University has been accepted as a participant in the program. Loans will be provided students in accordance with federal recommendations and regulations.

To be eligible, the student must show a genuine need for the loan, he must be enrolled as a full-time student or half-time student, and he must meet the academic standards set by the University.

The amount of the loan will be determined by the University on the basis of availability of funds and the student's financial need. Application blanks should be obtained from the Director of Financial Aids.

The Russell Loan Fund. This fund was established by the family and friends of Mrs. W. L. Russell to provide loans for needy women students. The fund is administered by the Dean, Student Personnel Services.

University Loan Fund. To be eligible for a University Loan a student must be of at least sophomore standing with an academic average of at least C. The primary need for the loan should be to remain in school. Only full-time students are eligible.

No student may borrow more than \$300 in his sophomore year, \$300 in his junior year, or \$600 in his senior year; the total owed at any one time shall not exceed \$600. The interest rate is two per cent during enrollment. At termination of enrollment, the rate increases to six per cent.

The will of the late Dr. W. D. Morgan of Charleston gives to the Student Loan Fund the annual income of approximately \$6,000. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the University by the will of the late John L. Whisnand of Charleston a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount is in trust with the Charleston National Bank. Information and applications are available in the Office of Financial Aids.

Errett and Maxie Tearney Warner Loan Fund. Established by Mr. Warner in memory of his wife; its purpose is to assist juniors (\$300 maximum loan) and seniors (\$400 maximum loan) who are full time students in good standing. Information and application forms are available in the Office of Financial Aids.

VETERANS BENEFITS

The Veterans Act of 1966, Public Law 358, provides educational benefits to veterans who have completed 181 days or more of federal active duty (six-month enlistees are not eligible) terminating with an honorable discharge on or after February 1, 1955. The law provides one-and-one-half months benefits per month of service up to eighteen months. A veteran with eighteen or more months of service will receive the maximum of thirty-six months. Minimum monthly benefits are \$220 for a full-time student. Applications are processed by the Office of Veterans Services.

Public Law 634. War Orphans may receive training under Public Law 634. Minimum monthly benefits are \$220 for full-time students.

Public Law 815. Veterans with 30% or more disability are eligible for training under Public Law 815 with special disability benefits. Minimum monthly benefits are \$170 for full-time students in addition to payment of all fees and reasonable amount of supplies.

Widows of veterans who died as a result of service and wives of totally disabled (service incurred) veterans are eligible for their husbands' educational benefits.

VA 21-674. All students eligible for this program must make application through their local Veterans Commission office. They are to bring the necessary forms to the Office of Veterans Services.

MILITARY SCHOLARSHIP

Any person who served in the armed forces of the United States after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged, may be awarded a scholarship provided he has the required period of service. A veteran discharged after August 11, 1967, must have a minimum of one year's active service. If discharged prior to this date, he needs only an honorable separation from service. Application should be made by filing a photostatic copy of the discharge or separation papers with the Office of Veterans Services. This scholarship may be used concurrently with the GI Bill.

Once initiated, the Military Scholarship runs continuously for four years and automatically terminates at that time unless an extension up to two years is granted under special conditions.

Military Scholarships must be registered with the Office of Veterans Services to be valid for use.

ILLINOIS ORPHANS EDUCATION ACT

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans and children of veterans who are totally and permanently disabled from a service-connected disability. Qualified students, ages 10 to 18, may receive up to \$150 and those from 18 to 23 may receive up to \$175 per month with which to defray expenses. Application blanks and additional information may be obtained from the Department of Registration and Education, Springfield, Illinois, or from the Illinois Veterans' Commission, 1000 Broadway, Mattoon, Illinois 61938.

FEDERAL EDUCATIONAL OPPORTUNITY GRANTS

The Educational Amendments of 1972 established two federal educational opportunity grant programs. They are the Supplementary Educational Opportunity Grant and the Basic Educational Opportunity Grant.

SUPPLEMENTARY EDUCATIONAL OPPORTUNITY GRANT

For students "who for lack of financial means of their own or of their families, would be unable to obtain such benefits without such a grant." It is intended to supplement other aids of undergraduate students, and each application for aid submitted to the Office of Financial Aids is checked for possible eligibility of this grant.

BASIC EDUCATIONAL OPPORTUNITY GRANT

This program provides for grants of \$1400 less the "expected family contribution" for all eligible students to assist them in meeting educational costs. If the HEW appropriation is sufficient to meet the total demand for Basic Grants, no award can exceed one-half the cost of attendance. If the appropriation is not sufficient to meet the total demand, the law specifies how each award is to be reduced.

In order for a student to receive a Basic Grant, he must have enrolled in a post-secondary institution for the first time on or after April 1, 1973, must have been accepted for enrollment at an eligible institution of higher education on at least a half-time basis in an undergraduate course of study.

Application forms are available at high schools, colleges, other federal offices, and the Office of Financial Aids. All students eligible to apply are urged to do so.

STATE REHABILITATION PROGRAM

The University cooperates with the Illinois Division of Vocational Rehabilitation. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained at the Counseling Center, the local office of the Division of Vocational Rehabilitation, West Route 16, Box 309, Charleston, Illinois 61920, or the student's home area DVR office.

STUDENT EMPLOYMENT

See Section II

COLLEGE WORK-STUDY PROGRAM

In addition to the regular student employment program, Eastern Illinois University has the Federal College Work-Study Program available to those students who demonstrate sufficient financial need. There are approximately 210 approved positions in departments and administrative offices. Write to the Director of Financial Aids for information.

IV. ADMISSION, READMISSION, ENROLLMENT AND ADVISEMENT

ADMISSION

POLICIES

Applications for undergraduate admission to the university may be obtained by writing to: Director of Admissions, Eastern Illinois University, Charleston, Illinois, 61920. Graduate applicants should write to the Dean of the Graduate School.

Acceptance of applications and granting of admissions are subject to completion of the application process (see Procedures section). Completed applications must be on file no later than ten calendar days preceding registration for the term in which the student wishes to enroll. Earlier closing dates may be announced in the press.

BEGINNING FRESHMEN

The university will consider applications for admission of candidates qualified as follows:

Fall Semester: Students who rank in the upper half of their high school class, based on completion of six or more semesters, or who achieve an ACT composite standard score of 22 or above, or a SAT score of 900 or above.

Spring Semester: Students who rank in the upper two-thirds of their high school class, based on completion of six or more semesters, or who achieve an ACT composite standard score of 20 or above, or a SAT score of 830 or above.

Summer Term: Depending upon availability of resources and facilities, the university will consider all students who are high school graduates.

OUT-OF-STATE FRESHMAN APPLICANTS

Out-of-state applicants must meet the same admission requirements as those which must be met by Illinois high school students.

TRANSFER STUDENTS

An applicant who has attended one or more other colleges or universities may be admitted in good standing if he has an overall "C" (2.00 GPA) average in college work attempted. The admission and the academic status of transfer applicants who have less than a "C" average at previous colleges or universities will be determined by the Committee on Admissions.

Acceptance of applications and granting of admission are subject to completion of the application process and payment of the required non-refundable application fee. Completed applications must be on file no later than ten calendar days preceding the first regular enrollment day of the term for which the student wishes to enroll. Earlier closing dates may be announced in public press.

SPECIAL STUDENTS

High School Students: Students who have completed the junior year in a recognized high school, who have fourteen units, who rank in the upper twenty-five per cent of their high school class, and who have the recommendation of their principal may apply to take not more than two courses during the summer session preceding their senior year in high school and not more than one course in a regular semester during their senior high school year. Credits which the student earns under this arrangement are held in escrow and later applied toward graduation at Eastern Illinois University. Students are cautioned that such credit may not be acceptable to, or transferable to, other educational institutions.

Non-Graduates of High School: Residents of Illinois who are not high school graduates but who are at least nineteen years old may be admitted as special students to take such undergraduate courses as they may be qualified to study, but they may not be considered candidates for a degree or diploma. Special students may become candidates for a degree by passing the General Education Development Test and obtaining a High School Equivalency Certificate; in this case, only those college courses taken after passing the examination may be counted toward graduation.

Guest Students: Students who have attended other colleges or universities and who wish to attend a single term as a guest student should correspond directly with the Office of Admissions for special instructions and application forms.

FOREIGN STUDENTS

Students from areas other than the United States may be admitted by Committee on Admissions action only.

Students whose native language is not English or whose college preparatory work has been done in non-English speaking schools, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Education Testing Service. The admission requirement is a minimum score of 450 on the TOEFL.

GRADUATE STUDENTS

See Section VIII. Graduate Study

PROCEDURES FOR APPLYING FOR ADMISSION

Beginning Freshmen:

1. Obtain an application for admission after the fifth semester from:
Director of Admissions
Eastern Illinois University
Charleston, Illinois 61920
2. Complete the application form and give it to the high school principal or

guidance counselor. He will complete the form and return it to the University *after the sixth semester rank is available.*

3. Have the health and medical form completed by your physician and forward it directly to the Director of Health Services.
4. Send the non-refundable fee of \$15 by check or money order made payable to Eastern Illinois University along with the admission fee data card to: Cashier, Business Office, Eastern Illinois University, Charleston, Illinois 61920.
5. Each student applying for admission must submit scores from the American College Testing Program (ACT). Complete information concerning the ACT may be obtained from the high school guidance counselor or principal. It is strongly recommended that this test be taken during the junior year in high school for applicants who desire early notification of acceptance. All test results should be forwarded directly from the testing agency. Scores forwarded from the high school are not acceptable.
6. Students whose native language is not English or whose college preparatory work has been done in a non-English speaking school, must present scores on the Test of English as a Foreign Language, administered by the College Entrance Examination Board and the Educational Testing Service. The admission requirement is a minimum score of 450 on the TOEFL.

Transfer Students:

Transfer students must complete the application form obtained from the Office of Admissions.

A transfer applicant need not provide a high school transcript or ACT or SAT scores unless he wishes to participate in intercollegiate athletics. All transfer applicants, however, must request all colleges and universities previously attended to forward official transcripts to the Office of Admissions.

Graduate students should see Section VIII on Graduate Degree programs.

An Official Permit to Enroll is mailed after an application has been processed and completed. The Official Permit to Enroll must be presented at the time the student enrolls.

Housing applications must be sent to the Dean, Student Housing, (see Section II, Living Accommodations) and may be made at any time, even though the application for admission has not been filed. The application for housing does not constitute an application for admission, nor does the application for admission constitute an application for housing.

READMISSION

FORMER UNDERGRADUATE STUDENTS

Former undergraduate students who are in good standing and who return to the University after a lapse of one or more terms must make application for readmission to the Records Office at least ten calendar days prior to the official enrollment day of the term in which they intend to enroll. An earlier closing date may be announced in the public press. Students enrolled in the Spring Semester need not apply for readmission for the ensuing Fall Semester.

Former undergraduate students dismissed for low scholarship must make application for readmission to the Records Office at least ten calendar days prior to the official enrollment day of the term for which they intend to enroll. In addition, such students *must* petition for reinstatement. Petitions for reinstatement may be obtained from the Records Office. A student must remain out of the University for at least one term before being considered for reinstatement. Petitions for reinstatement must be submit-

ted at least twenty calendar days prior to the official enrollment day of the term in which the student wishes to enroll. An earlier closing date may be announced in the public press.

A former undergraduate student dismissed for low scholarship who has then attended another institution may be readmitted in good standing provided that his composite cumulative GPA in all college work attempted is 2.00 or above. If his composite GPA in all college work attempted is below 2.00, he may be readmitted, but on probation, provided that his GPA at the last institution attended is 2.00 or above and he has completed at least eight semester hours at that institution.

Former undergraduate students who have attended other colleges or universities since last attending Eastern Illinois University must have official transcripts sent to the Records Office before final processing of the application can be completed. If the student is attending another college or university at the time of applying for readmission, a statement of good standing from that institution will suffice until the official transcript can be sent at the end of the term.

FORMER STUDENTS WHO HAVE GRADUATED

Former students who have graduated and who return to the University after a lapse of one or more semesters must make application for readmission to the Records Office at least ten calendar days prior to the official enrollment day of the term in which they intend to enroll. An earlier closing date may be announced in the public press. *Students who wish course work to apply toward a graduate degree must also apply for admission to the Graduate School through the Graduate Office.*

ENROLLMENT

ENROLLMENT PROCEDURES

New Students. Instructions for the enrollment of new students are given in writing, in conferences, and at meetings during orientation periods.

Students Currently Enrolled. Each student currently enrolled during a term should submit a Course Request Card for his early enrollment for the following term. By doing so, the student agrees to complete his enrollment by advance payment of all fees. The University assumes no responsibility for accepting an ineligible student's early enrollment. Reservation of a space for any class is subject to the assigned capacity of the class. Scheduling for the reservation of space is planned so that graduate students, seniors, juniors, sophomores, and freshmen are assigned space in that order. Students who fail to complete the various steps, including payment of fees, in early enrollment will forfeit the space in class which has been reserved for them.

All students who have not completed early enrollment for a given term will enroll at times announced in advance of each term.

Former Students. Students who return to the University after a lapse of one or more terms receive written instructions for enrollment procedures after they have applied for readmission.

ACADEMIC ADVISEMENT

NEW STUDENTS

Each new student is assigned to an advisor who assists him in the preparation of his academic program. During the orientation or enrollment days the advisor and the student plan the program jointly.

It is expected that the student will have selected one of the curricula of the University and that the student and his advisor will plan courses that are consistent with the University requirements.

FORMER STUDENTS

After the application for readmission has been approved, the student is assigned to his major department or his former advisor through the Registration Office.

STUDENTS CHANGING MAJORS

Students who wish to change majors should apply in the Registration Office after consultation with their advisors. It is important that changes be made *before pre-enrollment*.

NEW STUDENT ORIENTATION

Prior to enrollment, activities are scheduled for acquainting new students with the University. Undergraduates enrolling at Eastern Illinois University for the first time, whether as first term freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize them with the University in order that they may understand its rules and regulations and become aware of the educational, social and recreational opportunities it provides. A schedule of activities is provided by mail.



V. ACADEMIC REGULATIONS AND REQUIREMENTS

CREDIT

CREDIT EARNED AT EASTERN ILLINOIS UNIVERSITY

The unit of credit measure is the semester hour which approximates the effort expended in 50 minutes of class work and 100 minutes of study during each week of one semester.

Generally, students may count toward graduation no more than four semester hours credit in dramatics, chorus, orchestra, band, and four semester hours in physical education activity courses. However, music majors and minors may count six semester hours in music ensemble activities; physical education majors and minors and recreation majors may count six semester hours in physical education activity courses.

ACCEPTANCE OF CREDIT FOR OTHER WORK

Credit for Courses in Other Colleges and Universities. Advanced standing and transfer credit are granted for courses passed in accredited colleges and universities and in accredited junior colleges.

Transfers must earn a minimum of 56 semester hours toward a bachelor's degree in a senior institution.

Credit from a College or University Taken While a High School Student. A student who, while in high school, takes college courses at a college or university, and upon completion of high school qualifies and enters Eastern Illinois University, will have up to a total of 15 semester hours accepted for transfer credit of appropriate college courses in which he did "C" or better work in the college, provided the college courses were not used to meet minimum high school graduation requirements.

A student who, while in high school, takes college courses, and upon completion of high school, continues his studies in the college and eventually enters Eastern Illinois University, will have his college courses accepted on the same basis as any other transfer student.

Credit for Military Service. Former members of the armed services who completed at least one calendar year of full time active duty are allowed, upon application to the office of Veterans' Services, up to six semester hours of credit for Health Education 1200 and physical education service courses. Certain experiences in military service may be submitted to the Records Office for evaluation for advanced standing. The recommendations contained in "A Guide to The Evaluation of Educational Experiences In the Armed Services" by the American Council on Education

are used as a basis for such evaluation. Credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the University.

Credit for Correspondence and Extension Courses. Correspondence and extension courses taken from accredited colleges and universities may be submitted for evaluation for advanced standing toward a baccalaureate degree. The total credit accepted toward graduation may not exceed 32 semester hours in correspondence and/or extension courses. Credit toward graduation for such courses, if taken in whole or in part during a period of residence study at Eastern Illinois University is subject to permission granted by the Registrar, in advance of enrollment and to subsequent completion in accordance with the conditions governing the permission. When students are enrolled simultaneously in any combination of residence, extension and correspondence courses, the total credit accepted may not exceed the maximum residence credit for which the student would be eligible during the period in question. Credit received in Eastern Illinois University courses taught by Eastern Illinois University staff members, either on or off campus, may be counted as credit in residence.

Application for permission must include the proposed starting date of the course, the proposed completion date, and the proposed periods of work. If the course is not completed in accordance with this schedule, an extension of time granted by the Registrar is required in order for the course to be considered subsequently for credit toward a degree. Documentary verification of compliance with the regulations may be required by the Registrar.

Credit for Advanced Placement Tests. Students who submit scores for Advanced Placement Tests administered by the College Entrance Examination Board will have their records evaluated by the Registrar in accordance with standards established by the appropriate departments to determine proper placement and proper credit. College credit granted will be treated as transfer credit without a grade; such credit will count toward graduation and may be used in fulfilling specific curriculum requirements. Credit may be allowed as indicated above only if the student was not obliged to use the credit earned in the advanced placement course to meet minimum high school graduation requirements.

Credit for College Level Examination Program (CLEP) Tests. The University recognizes undergraduate achievement as measured by the examinations of the College Level Examination Program. A student may submit his scores to the Registrar for evaluation and if his achievement is at or above the minimum score level established by the University, credit will be granted toward satisfying requirements and graduation as follows:

- 1) English Composition General or Subject Examination – 3 semester hours (English 1001)
- 2) Analysis and Interpretation of Literature – 3 semester hours (English 1002)
- 3) Social Science — History Test – 6 semester hours
- 4) Natural Science Test – 6 semester hours
- 5) Humanities Test – 6 semester hours
- 6) Mathematics Test – 6 semester hours

Credit for General Examinations will be granted for a scaled score equivalent to the 50th percentile based on college sophomore norms.

Students who enroll at Eastern Illinois University with transfer credits and CLEP scores on general examinations may be given CLEP credit only in those areas not duplicating transfer credit.

Credit for College-Level General Educational Development Tests. No credit toward graduation is allowed for college-level General Educational Development tests.

CREDIT BY PROFICIENCY EXAMINATIONS

Proficiency examinations may be taken for credit in undergraduate courses offered in the University in accordance with the following regulations:

- 1) The applicant must be in good standing and must fit into one of the following categories:
 - a. Be enrolled as a full-time student.
 - b. Be within fifteen semester hours of graduation.
 - c. Be a teacher who has been working regularly toward a baccalaureate degree for teacher certification.
 - d. Be in full-time residence in the summer immediately preceding the year in which application is made.
- 2) The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
- 3) The applicant must obtain a recommendation in writing from the chairman of the department and approval from the dean of the college or school before the examination may be taken.
- 4) An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for one or more semesters of work in advance of the course in which the examination is requested.
- 5) Proficiency examinations may not be given for credit in courses in which the student has previously received an entry on his permanent record.
- 6) In order for the student to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol Cr is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
- 7) Credit earned by proficiency examinations may be counted toward a bachelor's degree subject to all of the rules that would apply if the same course had been taken in regular class attendance.
- 8) Proficiency examinations may not be given for credit in physical education services courses.
- 9) When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the chairman of the department.
- 10) Credit by proficiency examination is not granted in any portion of the first two years of work of a foreign language (through the intermediate level) to a native speaker of that language.

CLASSIFICATION OF STUDENTS

Undergraduate students are classified as follows:

Freshmen	0-29 semester hours
Sophomores	30-59 semester hours
Juniors	60-89 semester hours
Seniors	90-and above semester hours

Graduate students are those students who have completed a bachelor's degree from an accredited institution.

ACADEMIC STANDING

GRADES

The grades given in courses are as follows:

Grade	Description	Grade Point Value	Grade	Description	Grade Point Value
A	Excellent	4	E	Incomplete	—
B	Good	3	W	Withdrew-passing	—
C	Fair	2	WF	Withdrew-failing	0
D	Poor but passing	1	AU	Audit	—
F	Failure	0	Cr	Proficiency Credit	—
P	Pass				

The grade of E is given only when because of illness or some other important reason, a student's normal progress in a course is delayed. Such student must secure an instructor-approved plan which will allow completion of work no later than the end of the next term in which the course is offered and in which he is in residence. If the plan is accomplished, the instructor submits a Removal of Incomplete Form indicating the appropriate grade. If the student does not secure an instructor-approved plan or if the plan is not accomplished within the specified time-limit, the instructor will submit a Change-of-Grade Form indicating an F grade or, in special circumstances, he may grant a time extension. This requirement applies to both undergraduate and graduate courses with the exception that the time restriction does not apply to the formal papers required for degrees beyond the baccalaureate.

GRADES CHANGED

Requests to change assigned grades must be initiated by the student through the appropriate department no later than the end of the term following the one for which the assigned grade was recorded.

GRADE POINT AVERAGE¹

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of semester hours which may be earned in the course. The grade point average is computed by dividing the total number of grade points which a student has earned in all courses taken at Eastern Illinois University by the total number of semester hours represented by those courses (excluding courses in which a student has grades of E, P, W, AU, or Cr).

A student reinstated following academic dismissal with the stipulation that his GPA is to be based on his record following reinstatement has the same cumulative GPA status as a student entering the university for the first time, i.e., he has no cumulative GPA at the time he is reinstated or enters.

DEFINITION OF SEMESTER OR TERM OF ATTENDANCE

Any term in which a student registers in the University and remains beyond the day on which the official count is taken will be considered as a semester or term attended.

¹ An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 3, 4, 1, and 3 semester hours respectively, the grade-point average is computed as follows: Grade A, 2 semester hours yields a grade-point total of 8; grade B, 3 semester hours, yields a grade-point total of 9; grade C, 4 semester hours, yields a grade-point total of 8; grade D, 1 semester hour, yields 1 grade point; grade F, 3 semester hours, yields no grade points; and the grand totals are 26 grade points for 13 semester hours. The G.P.A. is then $26 \div 13 = 2.00$.

GOOD STANDING

A student whose cumulative grade-point average is at least 2.00 in courses taken at this university is in academic good standing.

PROBATION

A student whose cumulative grade-point average in courses taken at this university is below 2.00 but not so low as to warrant academic dismissal is on academic probation. A student reinstated on probation remains on academic probation until he earns good standing or is dismissed for low scholarship. A semester during which a student officially withdraws from the University and receives only grades of W shall not be counted as a semester of academic probation.

ACADEMIC DISMISSAL

A student is dismissed for low scholarship if:

- 1) at the end of a semester, his grade-point average for that semester is 0.00 and his cumulative grade-point average is below 2.00.
- 2) at the end of his first two semesters of attendance, his cumulative grade-point average is less than 1.00.
- 3) he has been on academic probation for two successive semesters of attendance and his grade-point average at the end of those two semesters is less than 2.00.

In the case of a student who is reinstated following academic dismissal, his semesters on probation prior to dismissal are excluded in determining whether or not he has had successive semesters on probation.

For purposes of this section (Academic Dismissal), the summer term is not counted as a semester.

POST BACCALAUREATE DEGREE STUDENTS

A post-bachelor's degree student who is enrolled either part-time or full-time for courses in the University and who is not a degree candidate must achieve the following grade-point average or be subject to academic dismissal:

Total Hours Attempted

Beyond Bachelor's

Minimum GPA

0 - 3

1.00

4 - 10

1.50

11 - 16

1.75

17 and above

2.00

REINSTATEMENT FOLLOWING ACADEMIC DISMISSAL

Only the Committee on Admissions may reinstate a student who has been dismissed for low scholarship. While a student may submit a petition at any time, at least one grading period must elapse from the time of the academic dismissal before any student may be reinstated. At the time of reinstatement, the Committee will indicate the conditions of reinstatement.

ACADEMIC EXCLUSION

A student who has twice been dismissed for low scholarship including academic dismissal from any other institution may not be reinstated.

ACADEMIC LOAD

For purposes of certifying that a student is full time *academically*, such student must be enrolled for at least 12 semester hours each semester and at least six semester hours during a summer term.

UNDERGRADUATE STUDENT

Normal Load. The normal amount of work for a student in any semester is 15 – 17 semester hours of course work. A student may take no more than a normal load during his first semester of residence.

Maximum Load — Student Teaching Semester. No student may take more than 15 semester hours during the semester in which he does student teaching.

Summer Term. The normal load during a summer term is 6 – 9 semester hours. Overloads for the summer term may be taken if the student qualifies (see below) but may not exceed 12 semester hours of undergraduate course credit.

Overload. An overload is defined as an academic load exceeding those limits stated above, including work by correspondence, extension and/or concurrent enrollment in another college or university.

Subject to the regulations and exceptions listed below an undergraduate student may register for as many as 21 semester hours of undergraduate work.

Seniors must have a cumulative grade point average of at least 2.00.

Juniors must have a cumulative grade point average of at least 2.50.

Sophomores must have a cumulative grade point average of at least 2.75.

Freshmen must have a cumulative grade point average of at least 3.00.

A student may not enroll for an overload in his first semester of residence.

An undergraduate student may enroll for more than 21 semester hours of undergraduate work if his cumulative grade point average is at least 3.50 and he has permission of the dean of the college or school administering his major.

GRADUATE STUDENT

A graduate student may take no more than 16 semester hours during a regular semester and 9 semester hours during a summer term.

COURSE ENROLLMENT

A student may neither enroll in a course nor take a proficiency examination in a course which is prerequisite for a course for which he has credit nor may he enroll or take a proficiency examination in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he will not receive credit for the course toward graduation and the grade will not be included in any GPA computations.

REPEATING COURSES

A student who receives a grade of A, B, or C in a course may not repeat the course. A student who receives a D in a course may repeat the course only once. Violation of these regulations will result in the deletion of the grade and credit for the invalid repeat from the official University records.

AUDITING OF COURSES

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of enrollment from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes.

Students must have the approval of the instructor for auditing a course. If, in the opinion of the instructor, student exposure and effort expended in the course deserve the entry of Audit, the student will receive the course entry, Audit, on his permanent record. If not, no entry will be made.

CLASS ATTENDANCE

Academic instruction at the University operates under the principle that class attendance is necessary to the complete learning process. Therefore, students are expected to attend their classes unless prevented by illness, an official university activity, or other urgent reasons.

If the student is absent from class for a legitimate reason which is established through the University Health Service or the Office of the Assistant Dean, Student Personnel Services, the instructor should afford the student a reasonable opportunity to make up work missed, including examinations. When the absence is unexplained, no such opportunity need be afforded the student.

A student who is absent from class, for whatever reason, is held responsible for the class material covered during his absence and he is expected to turn in all the exercises, papers, etc., assigned for submission during the course. However, the instructor will not use the mere fact of absence as a factor in determining a final course grade since such evaluations are based on achievement and are expected to measure learning — not attendance.

Instructors are responsible for keeping in their classbooks accurate records of the attendance of all members of their classes. The attendance record of any student shall be submitted to the Vice President for Academic Affairs; Office of the Dean, Student Personnel Services; or Dean, Student Academic Services, upon request.

If a student is absent from a given class for more than five consecutive sessions or establishes a pattern or record of absences which becomes a matter of concern to the instructor, the instructor will notify the Office of the Assistant Dean, Student Personnel Services, of the student's absence record, requesting that inquiries concerning the reason for absence be made.

FINAL EXAMINATION CHANGES

Students with three final examinations scheduled on a single day may submit requests to change the date of one of the final examinations through the office of the Dean, Student Academic Services. Forms for such requests should be filed no later than three class days prior to the first final examination day of each term. Students should not request instructors to deviate from the published examination schedule. Requests for changes in times of final examinations, other than by reason of three in one day or medically related situations, will not ordinarily be approved.

PASS-FAIL OPTION

Eligibility. Sophomores, juniors, and seniors who are in good academic standing at pre-enrollment time.

Procedure. At pre-enrollment only, the student will indicate the course he has opted for a pass-fail grade. No change of grade basis will be made after such an indication unless the pass-fail enrollment regulation is violated.

Limit of Courses. Maximum of 12 semester hours with no more than two courses in any single semester or summer term and, within the 12 hour limit, no more than two courses in any single subject title as listed in the catalog.

Courses which are specifically designated and approved for P-F grading only, as well as one P.E. service course per semester, are not counted against the P-F option limit of courses.

Courses Excluded.

- a. 1000 level courses used to satisfy general education requirements may not be taken pass-fail with the exception of French 1001, German 1001, Russian 1001, and Spanish 1001.
- b. Professional education courses required in a teacher certification program may not be taken pass-fail.
- c. Courses required in the student's declared major or program and specified by course number in the catalog major description may not be taken pass-fail by students in that particular major or program.

Further, where the catalog major or program description allows a selection of courses from a set of courses identified by subject-title or course number, none of the courses in the set may be taken pass-fail by students in that major or program.

WITHDRAWAL FROM A COURSE

1. Within the first ten calendar days after the first class day of a semester, a student may withdraw from a course (or from the University) without a grade.
 2. After the first ten calendar days following the first class day, but prior to the 45th calendar day of the semester, a student may withdraw from a course (or from the University) with a grade of W.
 3. A student who withdraws on or after the 45th calendar day of a semester will receive a grade of W if he is passing the course or a grade of WF if he is failing the course. However, no student may initiate withdrawal from a course (or from the University) later than a period beginning twenty-one calendar days prior to the first regularly scheduled final semester examination. Summer session cutoff dates, which are reduced proportionately, are established and announced by the Dean, Student Academic Services.
 4. If mitigating circumstances exist, the Dean, Student Academic Services, may upon recommendation of the Dean, Student Personnel Services, and/or the University Physician, advise the recording of a grade of W instead of a grade of WF.
 5. The grade of WF carries the same grade-point evaluation as the grade of F.
- For refund of fees, where applicable, see Section III.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the end of a semester or summer term must obtain a withdrawal form from the Office of the

Assistant Dean, Student Personnel Services. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. When completed, the form must be returned to the Office of the Assistant Dean, Student Personnel Services. The student is not withdrawn until the form is completed and submitted. The student is then officially withdrawn from the University, and the Registration Office notifies appropriate departments and agencies of the withdrawal.

If a student withdraws from the University and his initial notice of intention to withdraw is made to the Office of the Assistant Dean, Student Personnel Services, and his withdrawal is completed during the first ten calendar days (except the summer term) following the first day of classes for the semester, the registration fee will be refunded. The notice of intention to withdraw should be made in person although a letter addressed to the Office of the Assistant Dean, Student Personnel Services, declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice.

Policies covering the withdrawal of students from school because of a call to active military duty are administered by the Dean, Student Academic Services.

Rules governing grading practices upon withdrawal from the University are the same as for withdrawal from a course.

GRADUATION REQUIREMENTS

RESPONSIBILITY OF STUDENTS

It is the responsibility of the student to know and to observe the requirements of his curriculum and the rules governing academic work. Although the advisor will attempt to help the student make wise decisions, the ultimate responsibility for meeting the requirements for graduation rests with the student.

OPTIONAL CATALOG REQUIREMENTS

A student may choose to graduate under the requirements stated in the catalog current at his time of entrance or under the requirements stated in a subsequent catalog published prior to his graduation. However, in no case may a student combine or choose various requirements from several catalogs in order to achieve a minimal curriculum. During periods of transition, Deans, in consultation with department chairmen, are authorized to make such curriculum adjustments to graduation plans that will assure academically meaningful programs. Copies of all authorizations for exceptions must be filed in the Records Office.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

The official course requirements for the baccalaureate degrees are given in Section VII. To achieve a baccalaureate degree, the student must:

1. Complete 120 semester hours with a cumulative GPA of at least 2.00 in all work attempted. No more than four semester hours of physical education activity courses (six for physical education majors or minors and recreation majors) may be included in the 120 hours.
2. Successfully complete one of the degree programs outlined under the college

- or one of the schools and attain a minimum GPA of 2.00 in his major area.
3. Successfully complete at least 40 semester hours in upper division courses (3000-4000 numbered courses).
 4. Earn a minimum of 42 semester hours in residence with a minimum of 32 in the junior and senior years, 12 of which must be in residence during the senior year. Cooperative degree candidates must complete 38 semester hours in residence with a minimum of 27 semester hours in residence during the junior and/or senior years.
 5. Successfully complete an examination on the constitutions of the United States and the State of Illinois. This requirement may be met by successfully completing Political Science (1104 and 2603), or 2011, and applying to the Records Office.
 6. A transfer student must successfully complete a minimum of 12 semester hours in residence in his major discipline.
 7. A transfer student must successfully complete a minimum of 56 semester hours applicable to a baccalaureate degree in senior institutions.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

A candidate for a second bachelor's degree must earn at least 144 semester hours of credit, 64 of them in residence, and meet the requirements of the programs in which he is a candidate. The two degrees may be conferred at the same time providing the student makes appropriate arrangements with the deans concerned prior to entering officially upon the programs leading to the two degrees. If the two degrees are not conferred at the end of the same semester, any additional credits needed to complete the requirements for the second degree must be earned in residence at Eastern Illinois University.

SPECIAL EXAMINATIONS

Seniors, depending upon their area of concentration, are encouraged to take one of the following examinations:

- a. For students in the Elementary and Junior High School Curriculum: The National Teacher Examination - Common.
- b. For students in the Secondary School Curriculum: either the NTE or the GRE.
- c. For all other undergraduate students: The Graduate Record Examination - Aptitude.

APPLICATION FOR GRADUATION

Degrees are granted at the close of the fall, spring, and summer terms. Students entitled to participate in commencement exercises are those whose current enrollment in correspondence, extension, and residence at this university or elsewhere makes possible the completion of all graduation requirements by the close of the semester in which commencement is held. Students may be excused from the commencement exercises by the Faculty Marshal.

Students apply for graduation by the middle of the term in which they expect to complete the following semester hours of course work:

Elementary and Junior High School Majors	80
School of Industrial Arts and Technology	80
School of Health, P.E. and Recreation	80

Medical Technology	64
All others	70

A student may expect to receive from his school or college an evaluation of his progress toward completion of graduation requirements approximately one month after the beginning of the ensuing term.

Applications for graduation may be obtained at the Records Office. The application is completed by the student and validated by the Cashier when the graduation fee is paid. Graduation fees are as follows: bachelor's degree, \$15; master's degree, \$20; specialist's degree, \$20.

All requirements for degrees must have been completed by the close of the semester in which graduation is sought. It is the student's responsibility to notify the Records Office of any non-campus courses being taken which will complete the requirements for graduation. Documentary evidence that all degree requirements have been completed must be in the Records Office by the official closing date of the semester of graduation, or within a seven-day grace period following that date. The diploma will not be given to the student and the conferral of the degree will not be recorded on the student's permanent record until all such documents have been received.

If the student does not complete graduation requirements at the end of the semester expected, he must make re-application for graduation. No additional fees will be charged.

The deadline date for applying for graduation is the tenth calendar day following the first day of classes of the semester at the end of which the candidate plans to graduate; or the fifth calendar day following the first day of classes of a summer term.

HONORS

Graduation Honors. A student whose grade-point average is at least 3.50 but less than 3.75 is graduated with honors; one whose cumulative grade-point average is 3.75 or higher is graduated with high honors.

To be eligible for graduation honors a student must have taken, by the time he graduates, a minimum of 58 semester hours at Eastern Illinois University.

In order to be announced at commencement, tentative graduation honors will be computed on the basis of the scholarship record at the end of the semester preceding the semester of graduation. However, graduation honors are recorded on the diploma and the transcript only for students who complete graduation requirements with the final cumulative grade-point averages specified above.

Semester Honors. Honors for a particular semester, announced at the close of a semester, are awarded in accordance with semester grade-point averages which must have the same value as those specified above. To be eligible for semester honors the student must have taken at least 12 semester hours in courses not graded P-F during the semester.

The calculation of grade-point average for honors determination will be based on all work taken at Eastern Illinois University.

CERTIFICATION

Candidates for teacher certification are responsible for fulfilling any special accreditation or certification requirements of the schools in which they will teach.

Cards of entitlement for teaching certificates cannot be issued until the student meets all requirements for the appropriate degree.

PLACEMENT OFFICE

Registration with the Placement Office is recommended prior to graduation with any degree.

TRANSCRIPTS

The Records Office will make a transcript of the academic record of a student when requested to do so. Unless specific instructions are given to the contrary, it is understood that the Records Office has permission of the student to send his transcript of record to employing and certifying agencies, such as schools, boards of education, businesses, state department of education, when such an agency requests it.

All requests for transcripts must be in writing, either by letter or on the request form supplied by the Records Office.

The time required for preparation and mailing of transcripts varies; during enrollment and semester end there may be a delay of several days.

A fee of one dollar is charged for each transcript issued after the first one. Fifty cents is charged for each extra copy of the transcript when more than one is made at one time. Transcripts will be issued only for students whose University records are clear.

VI. CONTINUING EDUCATION AND COMMUNITY SERVICE

ESTABLISHING CENTERS

Off-campus courses are assigned to centers where it is likely that needs and enrollment will justify the service. The Off-Campus Center concept, with a sequence of course offerings planned over a one-two year period, is becoming more popular. Requests from Educational Service Region superintendents, unit superintendents, and other agencies will be considered in planning the off-campus program.

Requests should be filed at least six months in advance of the time the course(s) are desired so that departments can arrange for staffing. The University reserves the right to cancel scheduled classes where there is evidence that the enrollment will be inadequate.

ENTRANCE REQUIREMENTS

In most instances, undergraduate classes offered off-campus will be limited to upper division level courses — open only to juniors, seniors, and graduates and subject to specific course prerequisites. Admission to undergraduate off-campus courses does not obligate Eastern Illinois University to admit a student in the regular academic year. An application for admission must be filed with the Admissions Office ten days prior to enrollment for campus classes.

Graduate students are subject to the same entrance requirements (except for the Graduate Record Exam) as those enrolling in comparable courses taught in residence. An application for admission to graduate study must be filed prior to or at the time of enrollment for the first graduate course from Eastern.

ENROLLMENT PROCEDURES

Pre-enrollment in off-campus courses is desirable. However, enrollment may be accomplished at the first or second meeting of a class. All enrollment materials and fees are to be mailed to the Continuing Education Office no later than the second class session.

FEES (Subject to Change)

Off-campus fees are \$24 per semester hour of credit, plus a \$3 book rental for each course. The same fee applies to students who audit courses.

CREDIT FOR OFF-CAMPUS COURSES

Credit, expressed in semester hours, will be given upon successful completion of off-campus courses. Students not interested in receiving credit may audit courses by receiving permission from the instructor and paying the appropriate fees.

Credit received in Eastern Illinois University courses taught by Eastern Illinois University staff members, either on or off campus, may be counted as credit in residence.

SCHOLARSHIPS

The only scholarship that is valid for off-campus courses is the Illinois Military Scholarship.

SCHEDULE OF CLASSES

The schedule of off-campus classes is printed and distributed each semester by the Continuing Education Office. Classes meet in weekly periods of one hundred eighty minutes for fifteen weeks, i.e. from 7 p.m. to 10 p.m. once per week. Please address all inquiries and requests for bulletins to the Director of Continuing Education, Eastern Illinois University, Charleston, Illinois 61920.

WORKSHOPS, CONFERENCES AND SPECIAL FEATURES

Each summer a series of workshops, short courses and/or special features are planned by various academic departments at Eastern Illinois University. Occasionally, workshops or short courses are conducted at centers away from the university campus. All workshops and short courses are coordinated through the Office of Continuing Education — requests being submitted to the Director of Continuing Education during November of each year.

VII. UNDERGRADUATE DEGREES

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors, minors, and other specialized curricula for the degrees, are described in the sections which follow. The student has the ultimate responsibility to fulfill the requirements for the degree, to check his own eligibility to take courses, and to observe the academic rules governing his program. The advisor's role is to assist him in making important decisions.

DEGREES AND MAJORS

The University offers the following undergraduate degrees with appropriate majors in its college and schools:

COLLEGE OF ARTS AND SCIENCES

LIBERAL ARTS PROGRAMS

The candidate for a liberal arts degree must complete the general education requirements and intensive study, a strong major, in the discipline of his choice. Specific requirements for the major are listed under each discipline later in the catalog. No minor is required or noted on the transcript.

Degrees

Bachelor of Arts

Economics
English
French
German
History
Mathematics

Majors

Philosophy
Political Science
Psychology
Sociology
Spanish
Speech-Communication

Bachelor of Science

Afro-American Studies
Botany
Chemistry
Computational
Mathematics
Environmental Biology
Geography

Geology
Medical Technology
Physics
Speech Pathology &
Audiology
Zoology

TEACHER EDUCATION PROGRAMS

The candidate for a secondary or special teaching certificate in liberal arts subjects must complete the general education requirements, the professional education requirements for secondary education (see School of Education and Admission to Teacher Education), and

- 1) if he wishes certification in one discipline only, a strong major in that discipline. Such majors are described under the appropriate disciplines.
- 2) if he wishes certification in two disciplines, a major and a minor in two distinct disciplines. Such majors and minors are described under the appropriate disciplines.

Degrees

Bachelor of Arts

Economics¹
English
French
German
History
Mathematics
Political Science¹

Majors

Psychology
Social Science
Sociology
Spanish
Speech-Communication
Theatre Arts

Bachelor of Science

Botany
Chemistry
Geography

Physics
Speech Pathology &
Audiology²
Zoology

TEACHING MINORS

Afro-American Studies
Chemistry
English
French
Geography
German

History
Journalism
Latin
Library Science
Mathematics
Physics

Psychology
Russian
Social Science
Spanish
Speech Communication

COOPERATIVE PROGRAMS

These programs require completion of the general education requirements, three or more years of study at Eastern Illinois University, and completion of the program at the University of Illinois (engineering and pre-medicine) or at an affiliated hospital (medical technology).

Degrees

Bachelor of Science

Majors

Medical Technology
Engineering
Pre-Medicine

SCHOOL OF BUSINESS

PROFESSIONAL BUSINESS PROGRAM

Degree

Bachelor of Science
in Business

Majors

Accounting
Administrative Office Management
Automated Information Systems
Finance
Management
Marketing

No minor is required or noted on the transcript.

¹ Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult chairman of the department.

² This is a program toward teacher certification. It does not meet the requirements for the Special Certificate-Speech and Language Clinician (for the Illinois schools) nor the American Speech and Hearing Association of Clinical Competence. To prepare for those certificates students must take this program plus the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

TEACHER PREPARATION PROGRAM

The student who chooses to prepare himself for a teaching career in business should note admission to teacher education and required professional education courses under School of Education. The student must complete either a comprehensive business education major or a regular business education major plus a teaching minor in a non-business field.

Degree

Bachelor of Science in Education

Major

Business Education

TEACHING MINORS

Accounting

General Business

Secretarial

Typewriting and Bookkeeping

SCHOOL OF EDUCATION

Degree

Bachelor of Science in Education

Majors

Elementary Education

Elementary-Special Education

Junior High School Education

TEACHER EDUCATION

A chief objective of the University, since its beginning, has been the preparation of exceptionally qualified teachers for the schools. Even with today's expanded curriculum including various general and professional programs, much of the University's concern continues to be teacher preparation, and a great number of the students in each graduating class are prepared to enter careers as elementary, junior high school, or secondary teachers.

Recognizing the importance of preparing the highest quality of teachers and school service personnel, the University views teacher education as a total institutional responsibility. To marshal all relevant resources to the support of the teacher education program the University has established a representative faculty Council on Teacher Education. This council reviews and adjudicates all matters pertaining to curricular change and revision, admission and retention standards for teacher education, and establishes policies governing teacher education.

Teacher preparation programs require admission to teacher education (see below), successful completion of general education courses and professional education courses, including student teaching (see Teaching Practicum, page 65), and specialized study of one or more disciplines which the student plans to teach. Upon completion of an approved program, teaching candidates are qualified to receive a bachelor's degree and are recommended for an Illinois teaching certificate as follows:

Degree

B.S.Ed.

Teaching Certificate

Standard Elementary Certificate,

Grades K through 9

Standard High School Certificate

Grades 6 through 12

Standard Special Certificate,

Grades K through 14

B.A., B.S., B.S.Ed.

B.A., B.Mus., B.S.,
B.S.Ed.

The curriculum for elementary school teaching leads to the B.S. in Education degree with a standard elementary certificate.

The curriculum in special education leads to the B.S. in Education degree with a standard elementary certificate and a standard special certificate.

The curriculum for junior high school teaching leads to the B.S. in Education degree with a standard high school certificate.

High school or secondary teaching candidates who wish to prepare for teaching may be awarded the B.A., or B.S., degree from the College of Arts and Sciences with teaching certifica-

tion, the B.S.Ed. degree from the School of Business, the B.S. degree from the School of Health, Physical Education and Recreation with teaching certification, the B.S. degree from the School of Home Economics with teaching certification, the B.S. degree from the School of Industrial Arts and Technology with teaching certification, and the B.Mus. degree from the School of Fine Arts with teaching certification. See requirements under the section on majors and minors.

The secondary teaching candidate may pursue one of several degree programs and should consult the department offering the program in which he desires to major. Disciplines which offer programs for high school teachers with a standard high school certificate are: Botany, Business Education, Chemistry, Economics, English, French, German, Spanish, Geography, Health Education, History, Industrial Arts Education, Mathematics, Physical Education for Men, Physics, Political Science, Psychology, Social Science, Sociology, Speech-Communication, Theatre Arts, and Zoology. Disciplines which offer programs for high school teachers with a standard special certificate are: Art Education, Home Economics Education, Music Education, Physical Education for Men Elementary, and Physical Education for Women. High school or secondary teaching candidates must take three semester hours in U.S. history or U.S. government as well as three semester hours in health education and/or physical education.

EXPERIMENTAL SECONDARY EDUCATION PROGRAM

This is a non-traditional program designed to prepare secondary teachers in the Business Education, English, History, Political Science, Social Science or Sociology. The program is competency based and involves numerous experiences in public schools. Information concerning the program can be obtained in the Office of the Dean, School of Education, or from your major department.

Note for Transfer Students Who Pursue A Teacher Certification Program.

Although certain university general education requirements may be waived for transfer students who possess an A.A. or A.S. degree, students who desire graduation with teacher certification must meet all the course requirements of the desired certification program. In case of doubt concerning these requirements, consult the Dean, School of Education.

ADMISSION TO TEACHER EDUCATION

Admission to the University does not of itself admit a student to a teacher education program. Rather, the teaching aspirant must formally apply for teacher education through the office of the Dean, School of Education, to the University Council on Teacher Education which determines such admission.

Application forms are secured at a meeting scheduled each semester by the Assistant Dean for Instruction, School of Education. Dates of these meetings are posted outside Room 103, Applied Arts-Education Building and announced in the official notices of the *Eastern News*. At this meeting the rules and regulations pertaining to admission and retention in teacher education are explained and application forms distributed. Section 21-1 of the School Code of Illinois states in part, "No one shall be certified to teach or supervise at the public schools of the State of Illinois who is not of good character, good health, a citizen of the United States and at least 19 years of age. . . ." In addition to the qualifications required for teacher certification by the State Code the following are required by the Council for admission to teacher education:

1. A formal application.
2. At least 40 semester hours of credit.
3. A cumulative grade point average of at least 2.15,* based on all work attempted at Eastern Illinois University, the Eastern credits including at least 12 semester hours with grades of A, B, C, or D.

* Exceptions to the 2.15 grade point average requirement may be made in the following cases:

- a. A student readmitted to Eastern Illinois University in good academic standing after having been dismissed for low scholarship may be admitted to teacher education if his cumulative grade point average based on all attempted work following readmission is at least 2.15 and if his post-readmission credits include at least 12 semester hours with grades of A, B, C, or D.
- b. A transfer post-baccalaureate student in good academic standing at Eastern Illinois University with an undergraduate cumulative grade point average based on all attempted college work of at least 2.15 may be admitted to teacher education before accumulating 12 semester hours of Eastern credits with grades of A, B, C, or D.
- c. A person in good academic standing at Eastern Illinois University who has an Illinois provisional teaching certificate, valid currently or during any portion of the past five years, and who has completed two or more academic years of full-time teaching in appropriate subject(s) or at appropriate level(s), or the equivalent, may be admitted to teacher education regardless of the cumulative grade point average attained.

4. Language proficiency as demonstrated by one of the following:
 - a. A GPA of at least 2.00 in English 1001, 1002, and Speech-Communication 1310, or their equivalents in transfer credits. In the case of a student exempt from English 1001, the exempted course is excluded in computing this GPA. In the case of a student who has repeated one or more of these courses, only the higher grade received in each course is considered in computing this GPA.
 - b. A score of at least 400 on the verbal aptitude part of the Graduate Record Examination.
5. A positive recommendation from the student's major department or committee administering the major.
6. Clearance from the University Health Service, the Speech and Hearing Clinic, and the Personnel Services Office.

A student who is refused admission to teacher education or whose admission is revoked may appeal the decision to the Council on Teacher Education. Appeal forms may be secured in the office of the Dean, School of Education.

Any student who has ever been enrolled at Eastern Illinois University, and who has received credit for courses taken, will be considered as a readmitted student. Readmitted students must follow the same rules and regulations as resident students for the purpose of admission to teacher education.

Notes:

1. Students must be admitted to teacher education 10 weeks prior to the beginning of the student teaching term.
2. Students pursuing the Board of Governors degree are not eligible for admission to the undergraduate teacher education program.

REVOCATION OF ADMISSION

Under certain conditions admission to teacher education may be revoked by the Council on Teacher Education. Major causes of revocation are explained by the Assistant Dean for Instruction, School of Education, at the scheduled admission's meeting.

TEACHING PRACTICUM (STUDENT TEACHING 4301, 4302, 4304, 4308, 4401, 4402, 4404, 4408)

A student must apply for a student teaching assignment, and be admitted to teacher education, no later than 10 weeks preceding the term in which student teaching will be accomplished. Exceptions must be approved by the Director of Student Teaching.

Participants in the teaching practicum must attain 90 semester hours or more toward graduation and comply with all regulations and qualifications relative to admittance to teacher education. Students must earn at least three semester hours of the required teaching practicum credit in the Eastern Illinois University teaching practicum program for graduation. Post baccalaureate students completing requirements for teacher certification at Eastern Illinois University must complete six semester hours of teaching practicum.

The number of semester hours of student teaching required for graduation varies with the student's curriculum. A student enrolled in elementary education-special education is required to earn 15 semester hours of credit in student teaching with 6 semester hours required in elementary student teaching and 9 semester hours in special education student teaching. A student enrolled in elementary or junior high school education must enroll for a minimum of 8 semester hours and may enroll for a maximum of 15 semester hours of credit in student teaching.

A student enrolled in a high school curriculum is required to earn 12 semester hours in student teaching which represents both minimum and maximum credit that may be earned in student teaching. Questions pertaining to student teaching should be directed to the subject area coordinator or the Director of Student Teaching.

1. Depending upon the level of concentration:
 - a. **Elementary School Curriculum.** Students must have completed Elementary Education 3240 and 3280; to student teach in the Kindergarten the student must also have completed Elementary Education 4260; to teach in an Educable Mentally Handicapped Program a student must also have completed Special Education 3300 and 4960; to teach in the area of Learning Disabilities a student must also have completed Special Education 3350.
 - b. **Junior High Curriculum.** Students must have completed Junior High School Education 3110 and 3130 or 3140 or an approved substitute. Equivalent courses submitted must be approved by the Dean, School of Education.
 - c. **High School and Special Area Curricula.** Students must have completed Secondary Education 3320 or Educational Psychology 3320 (except students in the speech pathology and audiology curriculum who take Elementary Education 2320 and 3240) and any required departmental methods courses for the subjects to be assigned them.
 - d. **Experimental Secondary Education.** The following courses constitute a program designed to cover material and experiences presently provided in Educational Psychology 3320 or Secondary Education 3320, Educational Foundation 4450, departmental methods courses and student teaching: Secondary Education 2000, 3000, 3100, and 4000.
2. An overall grade-point average of 2.10 is required for application for admission to teaching practicum. Students must also have an average of 2.10 in their teaching field at the time of application.
3. The minimum requirements established by the Office of the Superintendent of Public Instruction for teaching a subject should have been completed.
4. Transfer students must have been in residence at Eastern Illinois University for at least one semester or one summer term.
5. A tuberculin skin test must have been completed in the University Health Service during the semester prior to the teaching practicum assignment.
6. Students enrolled in off-campus teaching must assume the necessary transportation, room, and board expenses.
7. Students who participate in full-time off-campus teaching should live in the community in which they do their teaching and are expected to observe the local calendar.
8. Students engaged in the teaching practicum are expected to participate in such activities as guidance programs of the school, audio-visual programs, study hall supervision, preparation of assembly programs, field trips, dramatics, attendance at P.T.A. meetings, faculty meetings, if invited, and participate as faculty members in as many of the activities of the school and community as possible.
9. Attendance is expected at a series of seminar meetings related to the teaching practicum. Details are distributed through the Office of the Director of Student Teaching.

APPLICATION FOR ASSIGNMENT

Assignments for teaching practicum are made in the public schools in the area and in the public schools of the Chicago area.

1. A spring semester meeting is scheduled by the Director of Student Teaching for all students who plan to enroll in teaching practicum during the ensuing school year. Requests for assignment received from students within ten days of this meeting have priority. Applications submitted after the spring meeting must be made at least one term in advance of the semester in which teaching is desired. Assignments are made by the coordinators and approved by the Director.
2. Students should arrange for their teaching assignments before registering for other subjects. Teaching assignments take priority in the student's schedule. Enrollment and fees are required as with other regular course work.
3. A student engaged in teaching practicum is limited to a total load of fifteen semester hours. The number of hours of outside work permitted is restricted.

SCHOOL OF FINE ARTS

PROFESSIONAL PROGRAMS

<i>Degree</i>	<i>Majors</i>
Bachelor of Arts	Art History Art Studio Theatre Arts
Bachelor of Music	Music History-Literature Music Performance Music Theory-Composition

TEACHER PREPARATION PROGRAMS

The candidate for the degree Bachelor of Arts with a major in Art Education or Theatre Arts, or for the degree Bachelor of Music with a major in Music Education, must complete the professional education requirements for teacher certification. See Teacher Education and Admission to Teacher Education under School of Education.

<i>Degree</i>	<i>Majors</i>
Bachelor of Arts	Art Education Theatre Arts
Bachelor of Music	Music Education

TEACHING MINORS

Music Education
Theatre Arts

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

PROFESSIONAL PROGRAMS

<i>Degree</i>	<i>Majors</i>
Bachelor of Science	Physical Education, Men Recreation

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

The candidate for the Bachelor of Science with a major in Physical Education may be certified as a teacher of physical education by completing the professional education requirements. See Teacher Education and Admission to Teacher Education under School of Education.

<i>Degree</i>	<i>Majors</i>
Bachelor of Science	Health Education ¹ Physical Education, Men Physical Education, Men — for Elementary ¹ Physical Education, Women

TEACHING MINORS

Health Education	Physical Education, Women
Physical Education, Men	Safety and Driver Education (second minor only)

¹ Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult chairman of the department.

SCHOOL OF HOME ECONOMICS

PROFESSIONAL PROGRAM

Degree

Bachelor of Science

Major

Home Economics

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

Candidates for the degree Bachelor of Science with a major in Home Economics Education must complete the professional education requirements for secondary teachers. See Teacher Education and Admission to Teacher Education under School of Education.

Degree

Bachelor of Science

Major

Home Economics Education

TEACHING MINOR

Home Economics Education

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

PROFESSIONAL PROGRAM

Degree

Bachelor of Science

Major

Industrial Technology

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

The candidate for the degree Bachelor of Science with a major in Industrial Arts Education must complete the professional education requirements for secondary teachers. See Teacher Education and Admission to Teacher Education under School of Education.

Degree

Bachelor of Science

Major

Industrial Arts Education

TEACHING MINOR

Industrial Arts Education

MINORS

Most programs do not require a minor. Certain minors are available, however, for students in teacher certification programs who wish to be certified in more than one discipline. The requirements are listed in the catalog. A candidate for a teacher certification degree may have entered on his permanent record those certified minors listed in the catalog.

A student who is not a candidate for a teacher certification degree and who wishes to take a minor in a discipline may do so by successfully completing a minimum of 18 semester hours in the discipline. A student who desires that such a minor be entered on his permanent record must list his minor on his application for graduation. A student adding a minor after having applied for graduation must reapply and note the addition on his reapplication. Upon certification by the dean, the minor will be entered on the student's permanent record.

STUDENTS COMPLETING TWO MAJORS OR A TEACHING MAJOR AND A NON-TEACHING MAJOR

A student who completes two non-teaching majors (example: English BA, Chemistry BS) will indicate his choice of first major to the Certifying Dean for that major. This major will determine his degree, but both majors will be noted on the certificate of graduation and on the permanent record. For example, if the above student selects English as his first major, he will receive the BA degree with majors in English and Chemistry. In such a case the student does not complete the total hours and residence requirement for two degrees.

If a student completes two teaching majors the above procedure will be followed and the student will receive a single degree but certification in two major fields.

A student who completes a non-teaching major and a teaching major may choose and initially be awarded only one major and one degree. To qualify for both degrees he must complete all the regular requirements for two degrees.

GENERAL EDUCATION REQUIREMENTS

All candidates for undergraduate degrees must complete the following requirements in general education:

English 1001 ¹ , 1002	6 sem. hrs.
Health Education 1200 ²	2
Speech-Communication 1310.....	3
Humanities ³	10
Social Studies ⁴	10
Mathematics-Science ⁵	10
<hr/>	
Total	41 sem. hrs.

COURSES ALLOWED FOR THE DISTRIBUTION REQUIREMENTS IN GENERAL EDUCATION

Generally courses numbered below 4000 in appropriate disciplines may count toward fulfillment of the distribution requirement in humanities, social studies, and mathematics-science. However, the following items concerning applicability of courses should be carefully noted.

METHODS COURSES.

Courses referred to as methods courses or methods of teaching courses, even though designated as courses in appropriate disciplines may *not* count. Specifically these excluded

¹ A standard score of 26 or higher on the English section of the ACT examination exempts a student from English 1001.

² Candidates for teacher certification must have a total of three semester hours of health education and/or physical education.

³ The requirement may be completed with eight semester hours of college credit in appropriate level courses in a single foreign language. For a prescription of appropriate levels, see the chart at the beginning of the Foreign Language course descriptions in Section X. Students not completing eight semester hours in a single foreign language must complete ten semester hours in more than one of the following: literature-language, music, art, theatre arts, speech-communication, philosophy, dance.

⁴ Must be taken in more than one of the following disciplines: anthropology, economics, geography, history, political science, psychology, sociology. Home Economics 3831 also applies.

Note for Students Desiring Teacher Certification: At least six semester hours of this requirement must be from disciplines other than psychology. At least one course in U.S. history or U.S. government must be taken. Students are reminded that Psychology 2310 is a prerequisite for courses taught by the School of Education.

⁵ Must be taken in more than one of these three areas with no more than seven semester hours in any single area: biological science, mathematics, physical science. Biological science disciplines are life science, botany, zoology. Physical science disciplines are physics, geology, chemistry, earth science.

courses are: Art 2410, 2440, 3410, English 3400, French 3400, German 3400, Latin 3400, Russian 3400, Spanish 3400, Geography 3400, Life Science 3400, Mathematics 3200, 3210, 3400, Physical Science 3400, Psychology 3400, Social Science 3400, Music 2440, 3400, 3439, and Speech-Communication 3400.

HUMANITIES COURSES WHICH APPLY.

Art: Courses numbered below 4000 except that Art 1000 and 1110 may count only for art majors and minors, for industrial arts and industrial technology majors, and for junior high school curriculum with Field II in Art. Art 1400 may count only for elementary, junior high school, recreation, or special education majors.

Literature and Language: All foreign language and English courses numbered below 4000 except English 1001, 1002, 3405.

Music: Courses numbered below 4000 except that Music 1421 may count only for elementary, junior high school, and recreation majors. Music 2421, 2422, 3421, and 3423 may count only for elementary education majors. Music 1541, 1542, 1543, 1544 may count only for music majors and minors. Music courses in applied, band, orchestra, and chorus may count for no more than six semester hours for music majors and minors, three semester hours for elementary education majors, and four semester hours for other majors.

Philosophy: Philosophy courses numbered below 4000.

Speech-Communication: Speech-Communication 2300, 2320, 2340, 2540, 3170, 3230, 3300.

Theatre Arts: Theatre Arts 1133, 2240, 2281, 3333, 3431, 3751, 3752, 3920, 3960, 3990.

Dance: Physical Education 2230, 2240, 3270, 3960.

SOCIAL STUDIES COURSES WHICH APPLY.

Courses numbered below 4000 in anthropology, economics, geography, history, political science, psychology, and sociology except Geography 3800, 3810, and 3950. Home Economics 3831 may be used.

MATHEMATICS — SCIENCE COURSES WHICH APPLY.

Courses numbered below 4000 in botany, chemistry, earth science, geology, life science, physics, physical science, mathematics, and zoology except:

Mathematics: Mathematics 1220, 2220, and 3190 count only for elementary and junior high school majors.

Physical Science: Physical Science 1000 and 1010 count only for elementary and junior high school majors.

Physics: Physics 1210 counts only for music and speech-communication majors and minors.

REQUIREMENTS FOR MAJORS AND MINORS FOR UNDERGRADUATE DEGREES

ACCOUNTING (B.S. BUS.)

Major:

Accountancy 2010, 2020, 3000, 3040, 3050, 4610, 4850	30 sem. hrs.
Management 2300, 3010, 3460, 3470, 3700, 3810, 4360	21
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 77 sem. hrs.

(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

ADMINISTRATIVE OFFICE MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 2240, 2250, 3220, 3230, 4750	15
Management 2300, 3010, 3460, 3470, 3700, 3810, 3830, 4360	24
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 73 sem. hrs.

(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

AFRO-AMERICAN STUDIES (B.S.)

Major:

Art 3300	3 sem. hrs.
English 2705, 4750	6
History 3110, 3120, 4130	9
Music 2561	2
Sociology 2710, 3810, 4740	9
Four courses chosen from: Anthropology 2730, 3611, Geography 4580, 4760, History 3050, 3060, Music 3563, Political Science 3353, 3723, 4803, Psychology 4700, Sociology 2720, 3650, 4721	11-12

Total 40-41 sem. hrs.

(Major GPA based on specific required courses.)

Minor (for teacher certification)

Art 3300	3 sem. hrs.
English 2705, 4750	6
History 3110, 3120	6
Music 2561	2
Three courses from: Anthropology 2730, 3611, Geography 4580, History 3050, 3060, 4130, Political Science 3353, Psychology 4700, Sociology 2710, 3810, 4740	9
Total	26 sem. hrs.

ART EDUCATION (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard Special Certificate. No minor required.)

Art 1000, 1110, 2050, 2100, 2250, 2410, 2560, 2601, 2602, 2700, 3080, 3410, 3820	43 sem. hrs.
Electives from Art 2000, 2800, 3000, 3051, 3052, 3111, 3112, 3251, 3252, 3340, 3570, 3701, 3702, 3801; 4580 or 3000 level art history courses	15
Total	58 sem. hrs.

(Major GPA based on art courses only.)

ART HISTORY (B.A.)

Major:

Art 1000, 1110, 2050, 2100, 2601, 2602	22 sem. hrs.
Two courses chosen from: Art 2250, 2560, 2700, 2800	6
Electives chosen from: Art 3300, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 4400, 4750, 4760, 4790	23-25
Electives in art minor area	12
Total	63-65 sem. hrs.

(Major GPA based on art courses only.)

ART STUDIO (B.A.)

Major:

Art 1000, 1110, 2050, 2100, 2601, 2602	22 sem. hrs.
Art history courses numbered 3630 or above	6
Option I or II	36
Total	64 sem. hrs.

Option I:

(Drawing, Painting, Printmaking, Visual Communications): Art 2000, 2560; 2250 or 2700 or 2800; eighteen semester hours chosen from Art 2900, 3000, 3051, 3052, 3080, 3570, 3901, 3902, 4000, 4051, 4052, 4400, 4580; nine semester hours chosen from art history, or Option II. Total, 36 semester hours.

Option II:

(Ceramics, Jewelry and Silversmithing, Sculpture, Weaving): Art 2250, 2700, 2800; eighteen semester hours chosen from Art 3111, 3112, 3251, 3252, 3340, 3701, 3702,

3801, 3802, 4111, 4112, 4251, 4252, 4400, 4701, 4702, 4800; nine semester hours chosen from art history or Option I. Total, 36 semester hours.

(Major GPA based on art courses only.)

AUTOMATED INFORMATION SYSTEMS (B.S. BUS.)

Major:

Accounting 2010, 2020	8 sem. hrs.
Management 2300, 2310, 3010, 3310, 3320, 3330, 3460, 3700, 3810, 4360, 4610	33
One of the following: Management 3800, 3820, 4300,	3
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
<hr/> Total	<hr/> 70 sem. hrs.

(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

BOARD OF GOVERNORS DEGREE PROGRAM (B.A.)

The Board of Governors degree program is an individualized, non-traditional program designed for working adults. No major is required and skills and knowledge acquired by non-academic means can be evaluated for academic credit. The residence requirement is minimal. The requirements for graduation are:

- 120 semester hours total
- 40 semester hours at the junior-senior level
- 15 semester hours completed in any order at any combination
of Board of Governors universities
- 12 semester hours in social science
- 12 semester hours in humanities
- 12 semester hours in science and/or mathematics

BOTANY (B.S.)

Major:

Botany 1010; 1022 or 2503*; 2290, 2300, 3350, 3361, 3541, 4611, 4851	28 sem. hrs.
Chemistry (1310 or 1300); 1315; (1410, 1415) or (1510, 1515)	8
Geology 1400 or Earth Science 1410	4
Life Science 1000, 3010	6
Zoology 1010	4
Electives in botany	6
Electives in mathematics and science**	8
<hr/> Total	<hr/> 64 sem. hrs.

(Major GPA based on Life Science 1000, 3010 and botany courses only.)

* An additional hour of Botany 2503 may be counted toward the botany electives requirement and five hours of Botany 2503 may be counted toward the free electives.

** Organic chemistry is strongly recommended.

BOTANY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Botany 1010, 1022, 2290, 2300, 3361, 3541	19 sem. hrs.
Chemistry 1310 or 1300; 1315; (1410, 1415) or (1510, 1515)	8
Geology 1400 or Earth Science 1410	4
Life Science 1000, 3010, 3400	9
Zoology 1010; 2000 or 2100; 3000 or 3100; 3300, 3700	17-19
Electives in botany	8
<hr/>	
Total	65-67 sem. hrs.

(Major GPA based on life science and botany courses only.)

BUSINESS EDUCATION (B.S. ED.)

The student may choose either a 49-55 semester hour comprehensive major or a 38-39 semester hour major with a minor in a second teaching field.

Comprehensive Major: (Standard High School Certificate. No minor required.)

The student may choose one of three options: Comprehensive Basic Business, Comprehensive Secretarial, or Vocational Business Education. The program in Vocational Business Education and 2,000 hours of related work experience prepares the student as a reimbursable vocational business teacher as provided by the Illinois State Board of Vocational Education and Rehabilitation.

Comprehensive Basic Business Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3000, 3220, 3230, 3400, 3410, 3430	15
Management 2300, 3460, 3470	9
Marketing 3470	3
Advanced accounting courses or Management 2310 and 3310	6
Elective in business	2
Economics 2801, 2802	6
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Total	55 sem. hrs.

Comprehensive Secretarial Option:

Business Education 2110 or 1120 and 2110	3-6 sem. hrs.
Business Education 2250 or 2240 and 2250	3-6
Business Education 3000, 3220, 3230, 3400, 3420, 3440, 4750	18
Management 2010, 2300, 3460, 3470	12
Accountancy 2010	4
Elective in business	3
Economics 2801, 2802	6
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Total	49-55 sem. hrs.

Comprehensive Vocational Business Education Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010	4
Business Education 3000, 3400, 4920, 4940	11
Management 2300, 3460, 3470	9
Economics 2801, 2802	6

Office Occupations Emphasis or Marketing Emphasis	19
Total	55 sem. hrs.

Office Occupations Emphasis:

Two of Business Education 1240, 1250, 2240, 2250
 Management 2010
 Business Education 3220, 3230
 One of Business Education 3420, 3440
 Two semester hour elective in business

Marketing Emphasis:

Accountancy 2020
 Business Education 3410
 Marketing 3470, 3480, 3490
 Three semester hour elective in business

(Major GPA based on all business courses taken.)

BUSINESS EDUCATION (B.S. ED.)

Major: Minor in a non-business teaching field required. (Standard High School Certificate) The student may choose one of three options: Accounting and Secretarial; Accounting; Secretarial.

Accounting and Secretarial Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Two of Business Education 1240, 1250, 2240, 2250	6
Accountancy 2010, 2020	8
Business Education 3220, 3400, 3430	7
Management 3460	3
One of Business Education 3420, 3440	2
Economics 2801, 2802	6
Total	38 sem. hrs.

Accounting Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3000, 3400, 3430	7
Management 3460, 3470	6
Advanced accounting courses	6
Economics 2801, 2802	6
Total	39 sem. hrs.

Secretarial Option:

Business Education 2110, 2240, 2250, 3000, 3220, 3230, 3400, 3420, 3440	24 sem. hrs.
Management 2010, 3460, 3470	9
Economics 2801, 2802	6
Total	39 sem. hrs.

(Major GPA based on all business courses taken.)

Minor: (Four options) (for teacher certification)

Accounting Option:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 3400, 3430	4
Management 3010	3
Advanced accounting courses	9
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Total	24 sem. hrs.

General Business Option:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 3000, 3400, 3410	7
Management 2010, 3460, 3470	9
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Total	24 sem. hrs.

Secretarial Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Two of Business Education 1250, 2240, 2250	6
Business Education 3220, 3230, 3400	8
One of Business Education 3420, 3440	2
Elective in business	2
<hr/>	
Total	24 sem. hrs.

Typewriting and Bookkeeping Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3220, 3400	5
One of Business Education 3430, 3440	2
Elective in business	3
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Total	24 sem. hrs.

CHEMISTRY (B.S.)

Major:

Chemistry 1310 or 1300; 1315, 1510; 1720 or (1515 and 2340)	10-11 sem. hrs.
Chemistry 2830, 2835, 2840, 2845, 3000, 3910, 3920, 4000, 4760, 4770, 4780, 4900, 4905	29
Electives chosen from Chemistry 3460, 4400, 4940	6
Mathematics 2351, 2352	8
Physics 1350, 1360	8
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Total	61-62 sem. hrs.

(Major GPA based on chemistry courses only.)

CHEMISTRY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Chemistry 1310 or 1300; 1315, 1510; 1720 or (1515 and 2340)	10-11 sem. hrs.
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Chemistry 2830, 2835, 2840, 2845, 3100, 3460, 3910, 4760, 4780, 4900, 4905	26
Mathematics 2351, 2352	8
Physical Science 3400	3
*Physics 1350, 1360	8
Total	55-56 sem. hrs.

(Major GPA based on Physical Science 3400 and chemistry courses only.)

Minor: (for teacher certification)

Chemistry 1310 or 1300; 1315; (1410 and 1415) or (1510 and 1515)	8 sem. hrs.
Chemistry 2430, 2435	5
Electives chosen from Chemistry 2340, 2440, 3460	3-4
Physical Science 3400	3
*Physics 1350, 1360	8
Total	27-28 sem. hrs.

* Students who wish to teach physics should take a minimum of 10 semester hours in order to meet certification requirements.

COMPUTATIONAL MATHEMATICS (B.S.)

Major:

Mathematics 2310, 2351, 2352, 2353, 2670, 3501, 3502, 3531, 3532, 3570, 3670, 3701, 3702, 3770, 4080	57 sem. hrs.
Management 2310	3
Electives chosen from: Management 3320, Mathematics 4760, Physics 1350, 1360, 3150	6-8
Total	66-68 sem. hrs.

(Major GPA based on mathematics courses only.)

ECONOMICS (B.A.)

Major:

Economics courses including 2801, 2802, 4801, 4802, 4991, and excluding 3810, 4859	36 sem. hrs.
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(Major GPA based on economics courses only.)

ECONOMICS (B.A. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard High School Certificate)

Economics 2801, 2802, 4801, 4802, 4991	15 sem. hrs.
Social Science 3400	3
Electives in economics	21
Choice of one of the options listed below	12-16
Total	51-55 sem. hrs.

I – 8 sem. hrs. in U.S. History and 8 sem. hrs. in European History. Total, 16 sem. hrs.

II – 8 sem. hrs. in each of two of the following: geography, political science, sociology.
Total, 16 sem. hrs.

III – 12 sem. hrs. in accounting or 6 sem. hrs. in each of two business subjects to be chosen from the following: accounting, data processing, business law, salesmanship (including marketing and advertising).

(Major GPA based on Social Science 3400 and economics courses only.)

ELEMENTARY EDUCATION (B.S. ED.)

This curriculum offers a choice of three options: Early Childhood (kindergarten and grades one, two, and three); Intermediate (grades four, five, and six); and Comprehensive (grades one through eight). Special option requirements are listed below.

Required Courses

The following constitutes the list of requirements (including the all-university requirements) in the elementary curriculum. The student and the advisor must cooperate in planning the sequence. Courses used to satisfy the requirements in one Area of Concentration may not be used to satisfy the requirements in another Area of Concentration.

Art 1400	3 sem. hrs.
Elementary Education 1230, 2320, 3240, 3270, 3280, 3290	17
Educational Foundation 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics 2220*, 3190	5
Music 1421	2
Physical Education 3600	2
Physical Science 1000, 1010	**4
Psychology 2310	3
Natural Science elective	3
Social Studies electives	6
Speech-Communication 1310	3
Student Teaching 4308	8
U.S. History or U.S. government	3
Humanities	5
Subject concentration(s)	20-22
Electives as needed to complete 120 semester hours	
One of the following options:	

Early Childhood Education:

English 3405; Mathematics 3200; two of the following: (Industrial Arts 2242), (Music 3423), (Art 2440). Students wishing to do student teaching in nursery-kindergarten must take Elementary Education 4260. Total, 9-13 sem. hrs.

Intermediate:

Mathematics 3210; two of the following: (Industrial Arts 2252), (Music 3421), (Art 2440). Total, 6-7 sem. hrs.

Comprehensive:

Mathematics 3200 or 3210; two of the following: (Industrial Arts 2242 or 2252), (Music 3421 or 3423), (Art 2440). Total, 6-7 sem. hrs.

* Placement in these courses (or permission to omit them) will be determined by the Mathematics Department.

** Four semester hours in physics or chemistry, including laboratory work, will fulfill this requirement.

Subject Areas of Concentration

Areas of Concentration consist of courses taken *in addition to the General Education*

Requirements. Any deviation from courses indicated here must be approved by the Dean of the School of Education. Transfer students will have their completed course work evaluated by the Dean of the School of Education or his designated representative.

Students must select two Areas of Concentration, one to consist of at least 12 semester hours and the other of 8 or 9 hours for a minimum of 20 or 21 semester hours. In certain instances, identified in the following list, a single combined concentration may be accepted in lieu of the two different areas.

The concentrations may be planned so as to supplement the student's professional goals or personal interest. In doing so students are invited to seek the assistance of their advisors.

In arranging their concentrations students should remember that their total program must include a minimum of 40 semester hours of upper division credit. For the area chosen students must take the courses specifically identified by number plus sufficient electives to complete their areas.

Art: 3090, 3190; electives.

Biological Science: Botany 1010*, 1022; Zoology 1010*; electives.

*If not used to satisfy General Education Requirements.

English: 2701 or 2702; 2901 or 3001; electives.

Foreign Language: 12 or 8 hours in a single language.

Foreign Language (combined concentration): 22 semester hours in a single language.

General Science (combined concentration): Botany and/or Zoology, 9 semester hours; Physics, Chemistry, Geology-Earth Science, 9 semester hours; electives, 3 semester hours. Total, 21 semester hours.

Geography: Earth Science 1420 or 3000; Geography 1500 or 3020; electives from Geography, Geology-Earth Science.

History: 2010 or 2020; 1510 or 1520; electives.

Home Economics-Health Education: Health Education 3200; Home Economics 3820* or 4840*; electives.

*Prerequisites for these two courses are waived for elementary education majors.

Library Science: 12 or 8 semester hours in library science electives.

Library Science (combined concentration): Library Science 3200, 3300, 3320, 4490, 4750, 4760, 4770. Total, 21 semester hours. (Students choosing this concentration do *not* need to take English 3405.)

Mathematics: 4820; electives other than Mathematics 1290.

Music: Music 1136 or 1137, 1203, 1204, 2136, 2203, 2204, 3561, 3562, 3563, 3564.

Nursery-Kindergarten Education: Elementary Education 3260, 4260; Home Economics 3853; electives to be chosen from Home Economics 4859, PE 3620, Speech Pathology and Audiology 4800.

Physical Education: PE 3610, 3620, 3630; suggested electives are Health Education 3200, PE 4320.

Physical Science: (Physics, Earth Science-Geology, Chemistry). Work in both chemistry and physics must be included.

Psychology: Select courses compatible with professional goals and interests.

Social Studies: Select from the following with a minimum of three disciplines being represented: Anthropology, Economics, History, Geography, Political Science, Psychology, Sociology.

Speech-Communication — Theatre Arts: Both disciplines must be represented. Select courses compatible with professional goals and interests.

Speech Pathology and Audiology: 2140, 2210, 4800.

**FLEXIBLE PROGRAM FOR ELEMENTARY MAJORS
WITH A 3.50 CUMULATIVE GPA**

An experimental program has been designed for a restricted number of Elementary Education majors with a cumulative grade point average of 3.50 or higher. The primary objective of the program is to provide students maximum flexibility in developing a program to meet their needs and interests. The curriculum listed below meets the all-university general education requirements as well as Illinois State requirements for teacher certification.

Students eligible to enter the program may submit an application to the chairman of the Department of Elementary and Junior High Education after completing 32 semester hours.

Art 1400	3 sem. hrs.
Elementary Education 2320, 3240, 3270, 3280	12
Educational Foundations 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics Electives	5
Music 1421	2
Physical Education 3600	2
Physical Science 1000, 1010	4*
Psychology 2310	3
Science Elective	3
Social Studies Electives	6
Speech-Communication 1310	3
Student Teaching 4308	8
U.S. history or U.S. government	3
Humanities	5
Electives	47
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Total	120 sem. hrs.

* Four semester hours in physics or chemistry, including laboratory work, will fulfill this requirement.

ELEMENTARY EDUCATION-SPECIAL EDUCATION (B.S. ED.)

Successful completion of this program leads to certification both as an elementary teacher and as a special education teacher in one or two of the following areas: Educable Mentally Handicapped or Learning Disabilities or Socially/Emotionally Maladjusted. Fifteen semester hours (six in elementary education and nine in one or two areas of special education) of student teaching are required.

By judiciously choosing his special education electives, a student may satisfy the requirements (with the exception of the practicum) for two areas of special education. Individuals desiring certification in more than one special education area should note that their program might extend beyond the minimum 120 semester hours required for graduation.

A limited number of opportunities will exist for students to include two areas of Special Education in their nine hours of student teaching. This may be accomplished through practicums in two special areas, or by a single integrated practicum including two areas of Special Education.

Required courses

The following constitutes the list of requirements (including the all-university requirements) in the elementary curriculum. The student and the advisor must cooperate in planning the sequence.

Art 1400	3	sem. hrs.
Elementary Education 1230, 2320, 3240, 3270, 3280, 3290	17	
Educational Foundation 4450	3	
English 1001, 1002	6	
Health Education 1200	2	
Life Science 1000	3	
Mathematics 2220*, 3190; 3200 or 3210	7	
Music 1421	2	
Physical Education 3600	2	
Physical Science 1000, 1010	4**	
Psychology 2310	3	
Science	3	
Speech-Communication 1310	3	
Student Teaching 4301, 4302, 4304, 4308	15	
U.S. history or U.S. government	3	
Select from two areas: (Art 2440), (Industrial Arts 2242 or 2252), (Music 3421 or 3423)	4-5	
Humanities electives	5	
Social studies electives	6	
Special Education Requirements listed below	22-25	
Electives as needed to complete 120 semester hours		

Special Education Requirements. Students will select one of the following sets of requirements:

Educable Mentally Handicapped: Special Education 2500, 3300, 4960, Educational Psychology 4990; Electives from: Special Education 3350, 3400, 4660, 4870, 4880, 4980, 4990, Educational Psychology 4770, Psychology 3550, Speech Pathology and Audiology 4800. Total, 23 semester hours.

Learning Disabilities: Special Education 2500, 3350, 4980, 4990; Electives from: Special Education 3300, 3400, 4660, 4960, 4870, 4880, Educational Psychology 4770, 4990, Psychology 3550, Speech Pathology and Audiology 4800. Total, 23 semester hours minimum.

Socially and Emotionally Maladjusted: Special Education 2500, 4660, 4870, 4880; Electives from: Special Education 3300, 3350, 3400, 4960, 4980, 4990, Educational Psychology 4770, 4990, Psychology 3550, Speech Pathology and Audiology 4800. Total, 23 semester hours minimum.

* Placement in these courses (or permission to omit them) will be determined by the Mathematics Department.

** Four semester hours in physics or chemistry, including laboratory work, will fulfill this requirement.

ENGINEERING (B.S.)

This cooperative degree program, administered by the Pre-Engineering Studies Committee, requires about three years of work at Eastern Illinois University followed by two years of work at the University of Illinois. It is designed to provide engineering students with a broader base of liberal arts than is usually given in a four-year curriculum. Upon completion of the program the student receives a Bachelor of Science degree from Eastern Illinois University and a Bachelor of Science in Engineering degree from the University of Illinois. Interested students should consult with the chairman of Pre-Engineering Studies Committee for detailed requirements of the program.

Specific Courses:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
English 1001, 1002	6
Health Education 1200	2
Humanities electives	10
Industrial Arts 1043	3
Mathematics 1340 or 1320; 2351, 2352, 2353, 3501	17 or 19
Physics 1350, 1360, 2370, 2390, 2400	17
Speech-Communication 1310	3
Social Studies electives	10
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Total	76 or 78 sem. hrs.
Elective credit to bring the total to 90 semester hours.	

After completing 60 semester hours in this curriculum, a student may apply to the Pre-Engineering Studies Committee for admission as an engineering candidate. The requirements for admission as an engineering candidate are minimum grade-point average of 2.50 and approval by the committee. Continuation as an engineering candidate requires maintaining a minimum grade-point average of 2.50.

A student who transfers into this curriculum from another college or university must be in residence at Eastern Illinois University for at least one semester before he becomes eligible for admission as an engineering candidate.

ENGLISH (B.A.)

Major:

English 2601, 4300	8 sem. hrs.
Twelve three-semester-hour courses, selected to satisfy groups 2 through 12, and also so that the student has at least three courses in one group of his choosing	36
Second year of a foreign language (or equivalent)	8
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Total	52 sem. hrs.

Note: The twelve groups are listed in Section X under English, and are also indicated in the course description.
(Major GPA based on English courses only.)

ENGLISH (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. No minor required.)

English 2601, 3400, 4300	11 sem. hrs.
Eleven three-semester-hour courses, selected to satisfy groups 2 through 12 and including 2901 and 3901 in group 2	33
Second year of a foreign language (or equivalent)	8
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Total	52 sem. hrs.

(Major GPA based on English courses only.)

ENGLISH (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. A minor is required.)

English 2601, 3400, 4300	11 sem. hrs.
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Nine three-semester-hour courses, selected to satisfy
groups 2, 3, 4, 5, 8, 11, 12, 6 or 7, and 9 or 10

and including 2901 and 3901 in group 2 27
Second year of a foreign language (or equivalent) 8

Total 46 sem. hrs.

(Major GPA based on English courses only.)

Minor: (for teacher certification)

English 2601, 2901, 3400 10 sem. hrs.

Three three-semester-hour courses, selected to satisfy
three of the following groups: 3, 7, 9, 10, 12 9

Total 19 sem. hrs.

ENVIRONMENTAL BIOLOGY (B.S.)

Major:

Botany 1010, 1022, 2290, 3350, 3541 16 sem. hrs.

Botany 3361 or Zoology 3200 3

Chemistry 1310 or 1300, 1315,
1410, 1415 8

Earth Science 1410 or 1420 or Geology 1400 3-4

Economics 3810 3

Life Science 1000, 3010, 4080, 4750 21

Zoology 1010; 2000 or 2100; 3100, 3300,
3700 18-19

Two of the following: Botany 4611,
Zoology 4800, 4810 6

Two of the following: Geography 3870,
Political Science 3733, Sociology 3622 6

Total 84-86 sem. hrs.

(Major GPA based on life science, botany, and zoology courses only.)

FINANCE (B.S. BUS.)

Major:

Accountancy 2010, 2020 8 sem. hrs.

Management 2300, 3010, 3460, 3700, 3710, 3720, 3810,
4200, 4360, 4830 30

Three of the following: Management 3470, 3900, 4390, 4840 9

Marketing 3470 3

Economics 2801, 2802 6

Mathematics 1290, 2110, 2120 11

Psychology 2310 3

Sociology 2710 3

Total 73 sem. hrs.

(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

FOREIGN LANGUAGE — FRENCH, GERMAN, OR SPANISH (B.A.)

Major:

A major in French, German, or Spanish shall consist of 32 semester hours in one language beyond the first 12 semester hours of college work in that language.
Note: Students with a background of high school units in foreign language do not receive university credit for those units. See Section X under Foreign Languages.
(Major GPA is based on courses in the major only.)

FOREIGN LANGUAGE — FRENCH, GERMAN, OR SPANISH
(B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

A major in French, German, or Spanish shall consist of a minimum of 35 semester hours beyond the first 12 semester hours of college work in one language. The methods course (3400) in that language must be included.
Note: Students with a background of high school units in French, German, or Spanish do not receive university credit for those units. See Section X under Foreign Languages.
(Major GPA is based on courses in the major only.)

FOREIGN LANGUAGE — FRENCH, GERMAN, LATIN, RUSSIAN, OR SPANISH

Minor: (for teacher certification)

A minor may be taken in French, German, Latin, Russian, or Spanish. Each minor shall consist of a minimum of 24 semester hours in one language (including methods 3400), starting with courses numbered 1102 or above. A student with credit for a methods course (3400) in some other foreign language has the option to take the methods (3400) in his minor language or another course in his minor to complete the 24 semester hours, in the same language, for certification. For a student with high school credits in that language the 24 semester hour requirement is reduced by one semester hour for each high school unit up to a maximum reduction of four semester hours.
Note: Students with a background of high school units in a foreign language do not receive university credit for those units. See Section X under Foreign Languages.

GEOGRAPHY (B.S.)

Major:

Courses chosen from Earth Science 1410 or 3010; 1420 or 3000; 2420	6-7 sem. hrs.
Courses chosen from Geography 3020, 3510, 3720, 4510, 4520, 4530, 4550, 4580	6-8
Courses chosen from Geography 1500, 3600, 3620, 3650, 3750, 3870, 3950, 4700, 4710, 4730, 4760	6
Courses chosen from Geography 3800, 3810, 4770, 4780, 4800	6-8
Geography electives	12
Total	36-41 sem. hrs.

(Major GPA based on earth science and geography courses only.)

GEOGRAPHY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Courses chosen from Earth Science 1410 or 3010; 1420 or 3000; 2420	6-7 sem. hrs.
Courses chosen from Geography 3020, 3510, 3720, 4510, 4520, 4530, 4550, 4580	6-8
Courses chosen from Geography 1500, 3600, 3620, 3650, 3750, 3870, 3950, 4700, 4710, 4730, 4760	6
Courses chosen from Geography 3800, 3810, 4770, 4780, 4800	6-8
Geography 3400 or Social Science 3400	3
Geography electives	12
Total	39-44 sem. hrs.

(Major GPA based on earth science and geography courses only.)

Minor: (for teacher certification)

One of the following: Earth Science 1410, 1420, 2420, 3000, 3010	3-4 sem. hrs.
One of the following: Geography 3020, 3720, 4510, 4520, 4530, 4550, 4580	3
One of the following: Geography 1500, 3600, 3620, 3650, 3750, 3870, 3950, 4700, 4710, 4730, 4760	3
One of the following: Geography 3800, 3810, 4770, 4780, 4800	3-4
Geography 3400 or Social Science 3400	3
Geography electives	6
Electives in social studies (except psychology)	6-5
Total	27-28 sem. hrs.

GEOLOGY (B.S.)

Major:

Chemistry 1300 or 1310; 1315; (1410, 1415) or (1510, 1515)	8 sem. hrs.
Electives chosen from Geology 3460, 4400, Earth Science 2420, Geography 3800, 4800	7
Geology 1400, 2430, 2440, 3430, 3440, 3450, 4450, 4490	25
Life Science 1000	3
Mathematics 1300, 1310, 1340	8
Physics 1350	4
Zoology 1010 or Botany 1010	4
Total	59 sem. hrs.

(Major GPA based on earth science, geography, and geology courses only.)

HEALTH EDUCATION (B.S. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard High School Certificate)

Health Education 2270, 3200, 3400, 3750, 4000, 4010, 4020	20 sem. hrs.
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Life Science 1000	3
Zoology 3000 or Zoology 3100	3 or 4
Nine or ten semester hours chosen from: Botany 2340 or Home Economics 3190; Health Education 1320 or 3000; 2900, 4800, 4820, 4900, 4996; Home Eco- nomics 2800 or Sociology 4730; Life Science 3010, Psychology 3550, Sociology 4702.....	9 or 10
Total	35-37 sem. hrs.
(Major GPA based on health education courses only.)	

Minor: (for teacher certification)

Health Education 1200, 2270, 3200, 3400	10 sem. hrs.
Life Science 1000	3
Psychology 3550.....	2
Twelve semester hours chosen from: Health Educa- tion 1320 or 3000, 2900, 3750, 4800, 4820, 4900, 4996; Home Economics 2800, 3190; Life Science 3010; Zoology 1010 or 2000; 3000.....	12
Total	27 sem. hrs.

HISTORY (B.A.)

Major:

History 1510, 1520, 2010, 2020; 3510 or 3520; 4500	17 sem. hrs.
History electives above 3000 to include six semester hours in American history (U.S. or Latin American) and six semester hours in non-American history	25
Total	42 sem. hrs.
(Major GPA based on history courses only.)	

HISTORY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. No minor required.)

History 1510, 1520, 2010, 2020; 3510 or 3520; 4500	17 sem. hrs.
History electives above 3000 to include three semester hours in U.S. history, three semester hours in American history (U.S. or Latin American), and six semester hours in non-American history	19
Social Science 3400	3
Total	39 sem. hrs.
(Major GPA based on Social Science 3400 and history courses only.)	

HISTORY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. A minor is required.)

History 1510, 1520, 2010, 2020; 3510 or 3520; 4500	17 sem. hrs.
History electives above 3000 to include three semester hours in U.S. history, three semester hours in	

American history (U.S. or Latin American), and six semester hours in non-American history	15
Social Science 3400	3
Total	35 sem. hrs.
(Major GPA based on Social Science 3400 and history courses only.)	

Minor: (for teacher certification)

U.S. history	9 sem. hrs.
American history (U.S. or Latin American)	3
Non-American history	12
Social Science 3400*	3
Total	27 sem. hrs.

* Social Science 3400 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, or speech.

HOME ECONOMICS (B.S.)

Major: (Home Economics)

Dietetics Option:

Botany 2340	3 sem. hrs.
Chemistry 1310, 1315, 1410, 1415, 2430, 3460	16
Economics 2801	3
Elementary Education 2320	3
Home Economics 1120, 1150, 2120, 3120, 3140, 3150, 3400, 4140, 4150	24
Management 3010	3
Mathematics 1250	4
Psychology 2310, 3620	6
Sociology 2710	3
Zoology 3000	3
Area I or II or III	0-7
Area I (Food Service Management): Accounting 2010, Management 3450. Total - 7.	

Area II (Education): no additional courses.

Area III (Experimental and Developmental Foods): Home Economics 3920, Marketing 3500. Total - 5.

Total 68-75 sem. hrs.

Home Economics in Business Option:

Economics 2801, 2802	6 sem. hrs.
Home Economics 1150, 2244, 2250, 2270, 3300, 3920, 4300	17
Journalism 3102	2
Management 2010	3
Marketing 3470	3
Psychology 2310; 3550 or 4870	5-6
Area I or II or III	34-46

Total 70-83 sem. hrs.

Area I (Foods and Nutrition): Home Economics 1120, 2120, 2251, 2800, 2850, 3120, 3140, 3150, 3307, 3925, 4140; Management 1420; Marketing 3500; Botany 2340; Chemistry 1100, 1110. Total, 45 sem. hrs.

Area II (Clothing and Merchandising): Home Economics 2231, 2232, 2245, 2251, 3236, 3237, 3370, 3925, 4238, 4280; Marketing 3480. Total, 34 sem. hrs.

Area III (Consumer Affairs): Home Economics 1120, 2800, 3370, 4840; Mathematics 1250 or higher; Sociology 2710; Psychology 4780; Accountancy 2010, 2020, 2200; Management 3460, 3700, 3720, 3900; Marketing 3720. Total, 46 sem. hrs.

Family Service Option:

Educational Guidance 4900	3 sem. hrs.
Home Economics 1120, 1150, 2120, 2244, 2250, 2270, 2800, 2850, 3140, 3150, 3300, 3307, 3370, 3820, 3853, 4300, 4840, 4845, 4846, 4851, 4854, 4859	58
Psychology 2310, 3520, 3550	7
Sociology 2710, 2720, 3600, 3791, 3810	15
Total	83 sem. hrs.

(Major GPA based on home economics courses only.)

HOME ECONOMICS EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard Special Certificate. No minor required.)

Home Economics 1120, 1150, 2120, 2244, 2250, 2270, 2800, 2850, 3300, 3307, 3400, 3370, 3371, 4400	39 sem. hrs.
(Chemistry 1100, 1110, Botany 2340) OR (Life Science 1000, Botany 2340, Zoology 1010, and a 3 sem. hr. course in either mathematics or chemistry)	10-13
Economics 2801, Psychology 2310	6
U.S. history or U.S. government	3
One Group I Area of Concentration listed below	11-14
One Group II Area of Concentration listed below	5-6
Total	74-81 sem. hrs.

Note: Home Economics Education majors take only 8 sem. hrs. of Student Teaching.

Group I Areas of Concentration: (choose one)

A — Child Development:

Home Economics 3853, 4851, 4854, 4859, elective in child development or family life. Total, 13-14 sem. hrs.

B — Clothing and Textiles:

Home Economics 2245, 3236, 3237, elective in clothing and textiles. Total, 13-14 sem. hrs.

C — Family Life Education:

Home Economics 4840, 4845, 4846, elective in child development or family life. Total, 11-12 sem. hrs.

D — Foods and Nutrition:

Home Economics 3120, 3140, 3150, electives in foods and nutrition. Total, 13 sem. hrs.

Group II Areas of Concentration: (choose one *unlike* your Group I choice)

A — Child Development:

Courses chosen from Home Economics 3853, 4851, 4854, 4859. Total, 5-6 sem. hrs.

B — Clothing and Textiles:

III. STUDENT EXPENSES AND FINANCIAL AID EXPENSES

REVISED

APPLICATION FEE

A non-refundable charge of \$15 must accompany an application for admission as an undergraduate.

QUARTERLY FEES*

All fees are subject to change at the end of any year by action of the Board of Governors of State Colleges and Universities. Fees for quarters listed below must be paid on or before registration day of each quarter. (A student who takes any combination of ten-week and eight-week courses will be regarded as a full-time quarter student for purposes of determining his fees.)

For Residents of Illinois—Undergraduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

Fee	Summer Qtr. 1970	Fall Quarter	Winter Quarter	Spring Quarter	Summer Qtr. 1971
Registration Fee	\$ 10.00	\$100.00	\$125.00	\$110.00	\$ 60.00
Service Fee	51.75*	53.75*	53.75*	53.75*	53.75*
Total	\$ 61.75	\$153.75	\$178.75	\$163.75	\$113.75

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

Fee (Per Quarter Hour)	Summer Qtr. 1970	Fall Quarter	Winter Quarter	Spring Quarter	Summer Qtr. 1971
Registration Fee	\$.90	\$ 8.50	\$ 10.50	\$ 9.00	\$ 5.00
Service Fee	2.85**	3.00**	3.00**	3.00**	3.00**
Total	\$ 3.75	\$11.50	\$ 13.50	\$ 12.00	\$ 8.00

For Residents of Illinois—Graduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

Fee	Fall 1970	Beg. Wtr. 70-71
Registration Fee	\$ 65.00	\$115.00
Service Fee	53.75*	53.75*
Total	\$118.75	\$168.75

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

*Student Activity Fee—\$12; Bond Revenue Building Fee—\$19; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4; Economically Deprived Student Fee—\$2 (beginning Fall 1970).

**Bond Revenue Building Fee—\$1.60; Textbook Rental Fee—\$9.00; Grants-in-Aid Fee—\$3.50; Economically Deprived Student Fee—\$1.50 (beginning Fall 1970).

A part-time student may purchase a student activity ticket for the regular price of \$12. He is not permitted to purchase health and accident insurance.

EASTERN ILLINOIS UNIVERSITY

	<u>Fall 1970</u>	<u>Beg. Wtr. 70-71</u> <u>Per Quarter Hour</u>
Registration Fee	\$ 5.50	\$ 9.50
Service Fee	3.00**	3.00**
Total	\$ 8.50	\$12.50

For Out-of-State Students

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

	<i>Summer 1970</i>	<i>Beginning Fall 1970</i>
Registration Fee	\$200.00	\$348.00
Service Fee	51.75*	53.75*
Total	\$251.75	\$401.75

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

	<i>Summer 1970 (Per Qtr. Hr.)</i>	<i>Beginning Fall 1970 (Per Qtr. Hr.)</i>
Registration Fee	\$ 16.50	\$ 29.00
Service Fee	2.85**	3.00**
Total	\$ 19.35	\$ 32.00

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state registration fee unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a permanent place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered residents of Illinois only if they have established a bona fide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a woman student either under or over the age of 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

SUMMER GRADUATE TERM FEES — 1970

Fees described below are payable on or before registration day for the eight-week summer graduate term:

For Residents of Illinois

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees:

*Student Activity Fee—\$12; Bond Revenue Building Fee—\$19; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4; Economically Deprived Student Fee—\$2 (beginning Fall 1970).

**Bond Revenue Building Fee—\$1.60; Textbook Rental Fee—\$9.00; Grants-in-Aid Fee—\$35; Economically Deprived Student Fee—\$15 (beginning Fall 1970).

A part-time student may purchase a student activity ticket for the regular price of \$12. He is not permitted to purchase health and accident insurance.

Courses chosen from Home Economics 2231, 2232, 2245, 3236, 3237, 4237, 4238.
Total, 5-6 sem. hrs.

C — Family Life Education:

Courses chosen from Home Economics 3820, 3853, 4840, 4845, 4846, 4940. Total,
5-6 sem. hrs.

D — Foods and Nutrition:

Courses chosen from Home Economics 2120, 3120, 3140, 3150, 4140, 4150. Total,
5-6 sem. hrs.

E — Consumer Education and Management:

Courses chosen from Home Economics 3925, 4280, 4300. Total, 5-6 sem. hrs.

F — General Home Economics:

Courses chosen from Home Economics 2251, 3750, 3920, 4280, 4940. Total, 5-6
sem. hrs.

(Major GPA based on home economics courses only.)

Minor: (for teacher certification)

Home Economics 1120, 2800, 2850, 3236, 3400; 2244 or 3300	18-19 sem. hrs.
Electives in home economics	6-5
	—
Total	24 sem. hrs.

INDUSTRIAL ARTS EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate. No minor required.)

Industrial Arts 1013, 1412, 2052, 3400	10 sem. hrs.
One course in each of four areas to be selected from electronics, graphic arts, industrial crafts, metals, power, and woods	12
Concentrations. The student will choose two subject areas for additional work of no less than 9 semester hours each from electronics, graphics, graphic arts, metals, power, and woods	18
Chemistry and/or Physics	7-8
Mathematics 1310	2
Industrial Arts or Industrial Technology electives	12
	—
Total	61-62 sem. hrs.

(Major GPA based on industrial arts courses only.)

Minor: (for teacher certification)

Industrial Arts 1013, 1412, 2052, 3400	10 sem. hrs.
One course in each of three areas to be chosen from electronics, graphic arts, industrial crafts, metals, power, and woods	9
Industrial Arts or Industrial Technology electives*	5
	—
Total	24 sem. hrs.

* State certification requires a minimum of 24 semester hours for teaching in the general laboratory. To teach in a unit laboratory the certification requirement is 8 semester hours in that specified field.

INDUSTRIAL TECHNOLOGY (B.S.)

Major:

Chemistry 1300 or 1310; 1315; 1510, 1515	8 sem. hrs.
Economics 2801, 2802, 3890	9
Health Education 3350	2
Industrial Arts 1043, 1163, 3063	9
Industrial Technology 1013, 3003, 3012, 3043, 4002, 4043	16
Management 3010, 3830, 4340	9
Management 2300 or Mathematics 2310	3
Mathematics 1340, 2340	6
Physics 1350, 1360	8
Psychology 3530	2
Option I or II or III or IV	15
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Total	89 sem. hrs.

Option I:

Electronics: A minimum of 15 semester hours of course work including Physics 3150 and study in the areas of industrial communications, vacuum tubes, semi-conductors, industrial instrumentation and industrial electronics.

Option II:

Construction: A minimum of 15 semester hours of course work including study in the areas of architectural planning, surveying, cost estimating, practices of construction and business law.

Option III:

Metal Work: A minimum of 15 semester hours of course work including study in the areas of casting, metallurgy, welding, sheet metal and advanced machine shop.

Option IV:

General: A minimum of 15 semester hours of in-depth technological course work selected by the student in consultation with his advisor and approved by the chairman of the department. The approved plan of study must be submitted to the certifying dean no later than the end of the semester in which the student will have earned 75 semester hours of credit. This submitted plan shall become a part of the degree requirements for the major.

(Major GPA based on specified courses only.)

JOURNALISM

Minor: (for teacher certification)

Journalism 2100, 2101, 2102, 3100, 3101, 4800	18 sem. hrs.
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JUNIOR HIGH SCHOOL EDUCATION (B.S. ED)

This curriculum is intended to prepare teachers for grades six, seven, eight, and nine. The student must choose a major field of specialization and a minor field of specialization, or three minor fields of specialization.

Required Courses

Elementary Education 1230, 2320	5 sem. hrs.
Junior High School Education 3110; 3130 or 3140; 4280	9

Educational Foundation 4450	3
English 1001, 1002	6
Health Education 1200	2
Psychology 2310, 3520	5
Speech-Communication 1310	3
Student Teaching 4308	8
Humanities (see General Education Requirements)	10
Mathematics-Science (see General Education Requirements)	10
Social studies electives	4
Physical education	1
U.S. history or U.S. government	3
Teaching Field I	32
Teaching Field II	24
Electives needed to total 120 semester hours	

Subject Fields of Specialization

ART

Field II: Art 1000; 2050 or 3080; 1110 or 1400; 2250 or 2700 or 3340; 2440 or 2410; 3410; 3601 or 4650; elective. Total, 24 sem. hrs.

BIOLOGICAL SCIENCES

Field I: Life Science 1000, 3010; Botany 1010, 1022; 2290 or 2300; Botany 3361 or Zoology 3200; Zoology 1010; 2100 or 3300; 3700; elective in botany or zoology or life science. Total, 32 sem. hrs.

Field II: Life Science 1000; Botany 1010, 1022; Zoology 1010; 3300 or 3700; electives in botany or zoology or life science. Must include a minimum of 8 semester hours in botany and 8 semester hours in zoology. Total, 24 sem. hrs.

ENGLISH

Field I: English 1001, 1002; 2701 or 2702; 2901, 3001; Library Science 3320; one of English 2601, 2801, 2802, 2805, 2806; Speech-Communication 1310; Electives in English, upper division recommended. Total, 32 sem. hrs.

Field II: English 1001, 1002; 2701 or 2702; 3001; Library Science 3320; one of English 2801, 2802, 2805, 2806; Speech-Communication 1310; elective in English, upper division recommended. Total, 24 sem. hrs.

FOREIGN LANGUAGES

Fields are available in French, German, Latin, Russian, and Spanish. A student with high school foreign language should consult Section X, under Foreign Languages, to determine upper course placement when continuing a language studied in high school. For a student initiating a given language at the college level the following courses must be included in the fields.

Field I: 1101, 1102, 2201, 2202, 3400, electives in that language. Total, 34 sem. hrs.

Field II: 1101, 1102, 2201, 2202, 3400, electives in that language. Total, 25 sem. hrs.

GEOGRAPHY

Field II: Geography 1500, 3020; 3510 or 4510; 3600 or 3870; 4530 or 4580; geography electives. Total, 24 sem. hrs.

HISTORY

Field II: History 1510, 1520, 2010, 2020; 2 or 3 semester hours in U.S. history; 2 or 3

semester hours in world or European history; electives in history, upper division recommended. Total, 24 sem. hrs.

HOME ECONOMICS

Field II: Home Economics 1120, 1150, 2244, 2800, 2850, 3236, 3300; elective in home economics. Total, 24 sem. hrs.

INDUSTRIAL ARTS

Field II: Industrial Arts 1013, 1063, 1113, 1163, 1213, 1293, 3400; elective in industrial arts, upper division recommended. Total, 24 sem. hrs.

LIBRARY SCIENCE

Field II: Library Science 3200; 3300 or 3320; 4490, 4750, 4760, 4770; Instructional Media 4870, 4880. Total, 24 sem. hrs.

MATHEMATICS

Field I: Mathematics 1250, 2220; 1320 or (1310 and 1340); 2310 or 2320; 2351, 2352, 3271; electives in mathematics numbered 2000 or higher except 2110, 2120, 2320, 2340, upper division recommended. Total, 32 sem. hrs.

Field II: Mathematics 1250, 2220; 1320 or (1310 and 1340); 2351, 3271; electives in mathematics numbered 2000 or higher except 2110, 2120, 2340, upper division recommended. Total, 24 sem. hrs.

PHYSICAL EDUCATION FOR MEN — JUNIOR HIGH SCHOOL

Field II: Physical Education 1530, 2000, 2440, 3400, 4320; electives from: PE service courses (maximum 3 sem. hrs.), 1520, 2450, 3130, 4750, 3 sem. hrs. professional courses. Total, 24 sem. hrs.

PHYSICAL EDUCATION FOR WOMEN — JUNIOR HIGH SCHOOL

Field II: Physical Education 1680, 1690, 2220, 2370, 2380, 2410, 2440, 3401, 4320; electives in physical education. Total, 24 sem. hrs.

PHYSICAL SCIENCE

Field I: Chemistry 1300 or 1310; 1315; either (Chemistry 1410 and 1415) or (Chemistry 1510 and 1515); either (Physics 1150 and 1160) or (Physics 1350 and 1360); 16 semester hours of electives with at least 3 semester hours in each field of chemistry, geology-earth science, physics. Total, 32 sem. hrs.

Field II: Chemistry 1300 or 1310; 1315; either (Chemistry 1410 and 1415) or (Chemistry 1510 and 1515); Physical Science 1000 or Chemistry 2340; three semester hours physics elective; either (Physics 1150 and 1160) or (Physics 1350 and 1360); elective from chemistry, geology-earth science, or physics. Total, 24 sem. hrs.

SOCIAL STUDIES

Field I: History 1510, 1520, 2010, 2020; two or three semester hours in U.S. history; two or three semester hours in world or European history (upper division recommended); eight semester hours in geography or political science; three semester hours in anthropology or sociology; three semester hours in economics. Total, 32 sem. hrs.

Field II: History 1510, 1520, 2010, 2020; two or three semester hours in U.S. history; two or three semester hours world or European history (upper division recommended); six semester hours from one of the following: economics, geography, or political science. Total, 24 sem. hrs.

SPECIAL EDUCATION — EMH

(To be taken only with a Field I in: Biological Sciences, English, Mathematics, Physical Science, or Social Studies.) (Must have a minimum of five semester hours of student teaching in EMH.)

Field II: Elementary Education 3270, 3280 (substitute 3280 for 4280); Special Education 2500, 3300; 3400 or 4960; Psychology 3600 or Educational Psychology 4990; Speech Pathology and Audiology 4800; electives from: Special Education 3350, 4660, 4870, 4880, 4980, 4990, Psychology 3550. Total, 24 sem. hrs.

SPECIAL EDUCATION — LEARNING DISABILITIES

(To be taken only with a Field I in: Biological Sciences, English, Mathematics, Physical Science, or Social Studies.) Must have a minimum of five semester hours of student teaching in L.D.)

Field II: Elementary Education 3270, 3280 (substitute 3280 for 4280); Special Education 2500, 3350, 4980, 4990; Psychology 3550; Speech Pathology and Audiology 4800; elective from: Special Education 3300, 3400, 4660, 4880, 4960, Educational Psychology 4990. Total, 24 sem. hrs.

SPEECH-COMMUNICATION

Field II: Speech-Communication 1310, 2300, 2320; Theatre Arts 1133; one of the following: Speech-Communication 2520, 2540, 3520, 3540; one of the following: Speech-Communication 3170, 3200, 3230; one of the following: Theatre Arts 2257, 3431, 3445; three semester hours from Speech-Communication, Speech Pathology and Audiology, Theatre Arts, and/or Journalism. Total, 24 sem. hrs.

LIBRARY SCIENCE

Minor: (for teacher certification)

Library Science 3200; 3300 or 3320; 4490, 4750, 4760, 4770 18 sem. hrs.

MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3450, 3460, 3700, 3810, 3830, 4360	24
Management either (3800, 3820, 4340, 4350) OR (3470, 4370, 4380, 4450)	12
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3

Total 70 sem. hrs.

(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)

MARKETING (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3460, 3700, 3810, 4360	18
Marketing 3470, 3480, 3490, 3500, 3720, 4860, 4870	21
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
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Total	70 sem. hrs.
(Major GPA based on (a) all business courses taken and (b) the courses constituting the specific major.)	

MATHEMATICS (B.A.)

Major:

Mathematics 2310, 2351, 2352, 2353, 3531, 3532	22 sem. hrs.
Electives chosen from any mathematics course numbered 2550 or above including at least two of the following sequences: 3501-3502, 3701-3702, 4861-4862	18
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Total	40 sem. hrs.
(Major GPA based on mathematics courses only.)	

MATHEMATICS (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Mathematics 2310, 2351, 2352, 2353, 2550, 3271, 3272, 3400, 3531, 3701, 3702	36 sem. hrs.
Electives chosen from any mathematics course numbered 3501 or above**	3 or 8
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Total	39 or 44 sem. hrs.

**Eight semester hours required if no minor is chosen.
(Major GPA based on mathematics courses only.)

Minor: (for teacher certification)

Mathematics 2351, 2352, 2550, 3271, 3400, 3531, 3701	24 sem. hrs.
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MEDICAL TECHNOLOGY (B.S.)

This cooperative degree program, administered by the Pre-Medicine Studies Committee, leads to the Bachelor of Science degree. It is a four-year program including three years of college work followed by one year of work in an affiliated hospital. The degree requires 120 semester hours of credit including 90 semester hours at Eastern Illinois University (or a combination of transfer credits and credits earned at Eastern totaling 90 semester hours) and 30 semester hours accepted as transfer credit for successful completion of a one-year program in medical technology at an affiliated hospital.

All University Requirements:

English 1001,1002	6 sem. hrs.
Health Education 1200	2
Speech Communication 1310	3
Humanities electives	10
Social Studies electives	10
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Total	31 sem. hrs.

Special Requirements:

Mathematics elective	3 sem. hrs.
Life Science 1000	3
Zoology 1010, 2000, 3600	10
Botany 3250	3
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435	16
	—
Total	35 sem. hrs.

Electives 24 sem. hrs.

Professional training in an affiliated school of medical technology 30 sem. hrs.

Total 120 sem. hrs.

MUSIC EDUCATION (B.MUS. FOR TEACHER CERTIFICATION)

Major: (Standard Special Certificate. The student chooses one of three options.)

Music 1103, 1541, 1542, 1543, 1544, 2541, 2543, 2560, 2580, 3571, 3572	20 sem. hrs.
Electives in MTH&L	8
Choose one of the following options	34-39
	—
Total	62-67 sem. hrs.

1. Instrumental Option.

Music 1136 (or 1137 and 2136), 1301, 2360, 2440, 3360, 3400; 3547 or 4840, or 4850. Choose one of three principals listed below. (34-37 sem. hrs.)

- String, Wind, or Percussion Instrument Principal. Music 1302, 1303, 1304, 1305, 1306; two semesters of class piano or completion of 2204; 10 sem hrs. in applied instrument; 6 sem. hrs. in instrument ensemble. Total, 23 sem. hrs.
- Keyboard Principal. Music 1302, 1303, 1304, 1305, 1306, 2205, 2206; 3221 or 4900; 10 sem. hrs. in applied keyboard; 4 sem. hrs. in instrumental ensemble. Total, 23-24 sem. hrs.
- Composition Principal. Four semesters of class piano or completion of Music 2204; three courses from 1302, 1303, 1304, 1305, 1306; 10 sem. hrs. of Music 0070; 4 sem. hrs. in instrumental ensemble. Total, 21 sem. hrs.

2. Vocal Option.

Music 2440, 2155, 3155; one course from 3547, 4750, 4840, 4850; 4 sem. hrs. in vocal emphasis. Choose one of three principals listed below. (36-37 sem. hrs.)

- Vocal Principal. Music 1301, 1302, 1305. Four semesters of class piano or completion of Music 2204. 2141, 2142, 3439, 3120 (taken twice); 10 sem. hrs. in applied voice. Total, 26 sem. hrs.
- Keyboard Principal. Music 1136 or 1137, 1301, 1302, 1305, 2136 (taken twice), 2205, 2206, 3439, 3221; 10 sem. hrs. in applied voice. Total, 25 sem. hrs.

- c. Composition Principal. Music 1136 or 1137. Four semester hours of Class Piano or completion of Music 2204; 2136 (taken twice); 2141, 2142, 3439; 10 sem. hrs. in Music 0070; two courses from 1301, 1302, 1303, 1304, 1305. Total, 25 sem. hrs.

3. General Music Option.

Music 2440, 3439, 3481; (2155 and 3155) or (2360 and 3360); 4 sem. hrs. in applied music; 2 sem. hrs. in keyboard; 2 sem. hrs. in ensemble. Humanities requirement: 6 sem. hrs. in English literature, 9 sem. hrs. in Art History/Appreciation, 6 sem. hrs. in Philosophy. Total, 39 sem. hrs.

(Major GPA based on music courses only.)

Minor: (for teacher certification)

Music 1103, 1541, 1542, 1543, 1544, 2440, 2541, 2543, 2580, 3572	16 sem. hrs.
Either Vocal Emphasis or Instrumental Emphasis	13

Vocal Emphasis:

Music 2155, 3155, 3439; 3 sem. hrs. in applied piano distributed over three semesters; 4 sem. hrs. in applied voice distributed over four semesters. Total, 13 sem. hrs. Participation for at least four semesters in a university choral organization is required.

Instrumental Emphasis:

Music 1302, 1303, 1305, 1306, 2360, 3360, 3400; 3 sem. hrs. in applied instrumental music distributed over three semesters. Total, 13 sem. hrs.

Participation for at least four semesters in a university instrumental organization is required.

Total	29 sem. hrs.
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MUSIC HISTORY-LITERATURE (B.MUS.)

Major:

Music 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204, 2541, 2543, 2560, 2580, 3547, 3571, 3572, 4872	30 sem. hrs.
Electives in MTH&L	18
Primary instrument or voice	16
Electives in music	2
Foreign language	8

Total	74 sem. hrs.
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(Major GPA based on music courses only.)

MUSIC PERFORMANCE (B.MUS.)

Major:

Music 1103, 1541, 1542, 1543, 1544, 2541, 2543, 2560, 2580, 3571, 3572	20 sem. hrs.
Electives in MTH&L	10
Choose one of the following options	48-56

Total	78-86 sem. hrs.
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1. String, Wind, or Percussion Instrument Option.

Two semesters of Class Piano or completion of Music 2204; Music 2360, 3360, 3547, 4872; one semester hour elective in music; six sem. hrs. in instrumental ensemble

including at least one sem. hr. of 0600 and four sem. hrs. of 0100, 0110, and 0120. 30 sem. hrs. in primary instrument. Total, 48 sem. hrs.

2. Keyboard Option.

Music 2205, 2206, 6 sem. hrs. in ensemble; including at least one sem. hr. each of 0600 and 3201 and four sem. hrs. of 0100, 0110, 0120, or 0300; choose either piano primary or organ primary. Total, 48 sem. hrs.

a. Piano Primary: Music 3221; 30 sem. hrs. in 0060; 7 sem. hrs. in music electives. Total, 40 sem. hrs.

b. Organ Primary: Music 4900; 30 sem. hrs. in 0061; 8 sem. hrs. in music electives. Total, 40 sem. hrs.

3. Vocal Option.

Four semesters of Class Piano or completion of Music 2204; Music 2141, 2142; 30 sem. hrs. in 0010; six sem. hrs. from 2155, 3120, 3155, 4770, 4780; six sem. hrs. in vocal ensemble, including at least one sem. hr. in 0600 and four sem. hrs. in 0300; one year of a foreign language.* Total, 56 sem. hrs.

(Major GPA based on music courses only.)

*This fulfills the humanities requirement.

MUSIC THEORY-COMPOSITION (B.MUS.)

Major:

Music 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204, 2541, 2543, 2560, 2580, 3547, 3571, 3572, 4541, 4542, 4872	34 sem. hrs.
Electives in MTH&L	10
Primary instrument or voice	10
Music 0070 and approved electives in music	18
Electives in ensemble	6
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Total	78 sem. hrs.

(Major GPA based on music courses only.)

PHILOSOPHY (B.A.)

Major:

Philosophy 1800, 1830, 1900, 2850, 2860, 4480	18 sem. hrs.
Electives in philosophy approved by the department	18
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Total	36 sem. hrs.

(Major GPA based on philosophy courses only.)

PHYSICAL EDUCATION, MEN (B.S.)

Major:

Physical Education service courses	5 sem. hrs.
P.E. 1500, 1530, 2000, 2440, 4320	15
Life Science 1000; Zoology 3000	6
One area of concentration	12
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Total	38 sem. hrs.

Coaching concentration:

One or two of the following: PE 3470, 3480, 3490, 3500, 3550, 3580; and electives from: PE 3130, 3700, 4340, one service course, 4741, 4742, 4743, three sem. hrs. from PE professional courses. Total, 12.

Dance concentration:

PE 2220, 2230, 2240; and electives from: 3220, 3230, 3250, 3270, 3620, 3960, 4741, 4742, 4743, Th.Arts 2257. Total, 12.

General Physical Edu. concentration:

Electives from: PE 1520, 2450, 4310, 4750, one of (3470, 3480, 3490, 3500, 3550, 3580), one service course, 4741, 4742, 4743, three sem. hrs. from PE professional courses. Total, 12.

Athletic Training concentration:

PE 2450, 3130, 4340, 4770; and electives from: PE 3700, 3470, 3480, 3490, 3500, 3550, 3580, 4741, 4742, 4743. (Students interested in completing national certification in athletic training must complete an additional 20 sem. hrs. in related course work. See chairman of the physical education department.)

PHYSICAL EDUCATION, MEN (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Physical Education service courses*	6 sem. hrs.
P.E. 1500, 1530, 2000, 2440, 3400, 4320	18
Life Science 1000; Zoology 3000	6
Area of Concentration	12
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Total	42 sem. hrs.

Coaching Area:

One or two courses from: P.E. 3470, 3480, 3490, 3500, 3550, 3580. Electives from: P.E. 3130, 3700, 4340, one service course, 4741, 4742, 4743. 3 sem. hrs. of professional P.E. electives. Total, 12 sem. hrs.

Dance Area:

P.E. 2220, 2230, 2240. Electives from: P.E. 3200, 3220, 3230, 3250, 3270, 3620, 3960, 4741, 4742, 4743, Theatre Arts 2257. Total, 12 sem. hrs.

Secondary Teaching Area:

Electives from: P.E. 1520, 2450, 4310, 4750. May select one course from: P.E. 3470, 3480, 3490, 3500, 3550, 3580. May select one service course. May select 4741, 4742, 4743. 3 sem. hrs. of professional P.E. electives. Total, 12 sem. hrs.

Athletic Training Area:

P.E. 2450, 3130, 4340, 4770, Electives from: P.E. 3470, 3480, 3490, 3500, 3550, 3580, 3700, 4741, 4742, 4743. Total, 12 sem. hrs. (Students interested in completing national certification in athletic training must complete an additional 20 sem. hrs. in related course work. See Chairman of the P.E. Department.)

(Major GPA based on P.E. courses only.)

*Must include a swimming course, dance course, and a course in a contact sport.

PHYSICAL EDUCATION, MEN FOR ELEMENTARY (B.S. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard Special Certificate)

Physical Education service courses*	6 sem. hrs.
P.E. 1500, 1530, 2000, 2440, 3400, 4320, 3620, 3630, 3640	27
Life Science 1000; Zoology 3000	6
Electives from: P.E. 1520, 2410, 2450, 3610, 4741, 4742, 4743, 4750, Elementary Edu. 2320, 3240, Health Edu. 1320 or 3000	11
Area of Concentration	12
<hr/> Total	<hr/> 62 sem. hrs.

Areas of Concentration — See above under Physical Education, Men (Standard High School Certificate)

*Must include a swimming course, dance course, and a course in a contact sport.

Minor: (for teacher certification)**Teaching Option:**

Physical Education service courses*	4 sem. hrs.
P.E. 1530, 2000, 2440, 3400, 4320	17
Electives from: P.E. 1500, 1520, 2450	2
Electives from: P.E. 3470, 3480, 3490, 3500, 3550, 3580, 4310, 4750	3
<hr/> Total	<hr/> 25 sem. hrs.

Coaching Option:

Physical Education service courses*	2 sem. hrs.
P.E. 2440, 3130, 3400, 3700, 4320, 4340	17
Two of the following: P.E. 3470, 3480, 3490, 3500, 3550, 3580	6
<hr/> Total	<hr/> 25 sem. hrs.

*Must include a swimming course, dance course, and a course in a contact sport.

PHYSICAL EDUCATION, WOMEN (B.S. FOR TEACHER CERTIFICATION)**Major: (Standard Special Certificate)**

P.E. 1500, 1520, 1690, 2220, 2230, 2240, 2320, 2370, 2380, 2410, 2450, 3200, 3401, 4320, 4750	38 sem. hrs.
Life Science 1000; Zoology 3000	6
Three to five activity courses from: P.E. 1060, 1400, 1610, 1660, 1670, 1810, 1870, 1880	3-5
*Area of Emphasis	10-12
<hr/> Total	<hr/> 59 sem. hrs.

Dance Area:

P.E. 3230; electives from: P.E. 3220, 3250, 3270, 3620, 3960, Theatre Arts 2257. Total, 10-12 sem. hrs.

Elementary Physical Education Area:

P.E. 3620, 3630, 3640; electives from: P.E. 3610, Special Education 2500 or Elementary Education 2320, Health Education 1320 or 3000 or P.E. 3130. Total, 10-12 sem. hrs.

Sports and Coaching Area:

P.E. 3390; electives from: P.E. 3320, 3330, 3340, 3350, 3370, 3380, 3700 or 4340, Health Education 1320 or 3000 or P.E. 3130. Total, 10-12 sem. hrs.

General Area:

Courses selected from health and physical education in all three areas (Dance, Elementary Physical Education, Sports & Coaching) of emphasis in any combination. Total, 10-12 sem. hrs.

*Area of Emphasis and one hour activity course must total 15 sem. hrs.

(Major GPA based on physical education courses only.)

Minor: (for Teacher Certification)

P.E. 1060, 1690, 2220, 2230, 2320, 2370, 2380	
2410, 3200, 3401, 4320	24 sem. hrs.
Three of the following: P.E. 1610, 1670, 1810,	
1870, 1880	3
Total	27 sem. hrs.

PHYSICS (B.S.)

Major:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352, 2353, 3501, 3502	17
Physics (1350, 1360) or (1150, 1360) or (1150, 1160)	8
Physics 2370, 2390, 2400, 3410, 3420, 4000, 4010,	
4840, 4850	25
Electives chosen from Physics 3150, 4470, 4750,	
4800, 4860, 4870	6-8
Total	64-66 sem. hrs.

(Major GPA based on physics courses only.)

PHYSICS (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

*Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352, 2353, 3501, 3502	17
Physical Science 3400	3
Physics (1350, 1360) ** or (1150, 1360) or (1150, 1160)	8
Physics 2370, 2390, 2400, 3410; 3150 or 3420; 4000,	
4010, 4830, 4850	25
Total	61 sem. hrs.

(Major GPA based on Physical Science 3400 and physics courses only.)

*Students who wish to teach chemistry should take a minimum of 10 sem. hrs. in order to meet certification requirements.
**or (1150, 1360) or (1150, 1160) with permission of the chairman of the department.

Minor: (for teacher certification)

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352	6
Physical Science 3400*	3
Physics (1350, 1360) ** or (1150, 1360) or (1150, 1160)	8
Physics 2370, 4830	6
Electives chosen from Physics 2390, 2400, 3150, 3410, 3420, 4470, 4750, 4850	3-4
Total	34-35 sem. hrs.

*Physical Science 3400 may be omitted if the student has credit in Geography 3400 or Life Science 3400.

**or (1150, 1360) or (1150, 1160) with permission of the chairman of the department.

POLITICAL SCIENCE (B.A.)**Major:**

Political Science 1003, 1104, 2003, 2603, 4952	15 sem. hrs.
One of Political Science 2203, 3203, 3223, 4813	3
One of Political Science 3303, 3313, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4753, 4793, 4843	3
One of Political Science 3503, 3513, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in political science	9
Total	39-40 sem. hrs.

(Major GPA based on political science courses only.)

POLITICAL SCIENCE (B.A. FOR TEACHER CERTIFICATION)

(Program under consideration by State Teacher Certification Board for approved program status. Until approved, certification must be obtained through evaluation process. Consult the chairman of the department.)

Major: (Standard High School Certificate)

Political Science 1003, 1104, 2003, 2603, 4952	15 sem. hrs.
One of Political Science 2203, 3203, 3223, 4813	3
One of Political Science 3303, 3313, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4843, 4753, 4793	3
One of Political Science 3503, 3513, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in political science	9
Social Science 3400	3

Total 42-43 sem. hrs.
(Major GPA based on Social Science 3400 and political science courses only.)

PRE-MEDICINE INFORMATION

Since many medical schools admit few, if any, students without a bachelor's degree, most students desiring the M.D. degree complete a bachelor's degree before entering medical school. Programs leading to the B.A. or the B.S. degree with a variety of majors are suitable for such students. When registering, such students should indicate their choice of degree and major. Pre-medicine should not be listed as the student's major unless the student is of sophomore or higher class standing and has been admitted to the cooperative pre-medicine degree program described in the next section. All students interested in a career in medicine should consult with the Chairman, Pre-Medical Studies Committee, for information regarding medical school admission requirements. Regardless of the choice of major, the student who wants to enter medical school should complete the following minimum program in science.

Life Science 1000	3 sem. hrs.
Zoology 1010; 2100 or 2200	8
Chemistry, including 8 semester hours of organic chemistry	16
Physics 1150; 1160 or 1350; 1360	8
Chemistry 2340 is highly recommended	3

PRE-MEDICINE (B.S.)

A cooperative pre-medicine program leading to the B.S. degree, after one year in medical school, is available to a limited number of students with high scholastic achievement records. Students who complete a year of college work with superior grades and who are interested in reducing the period of pre-medical study by a year should consult with the Chairman, Pre-Medical Studies Committee, for the detailed requirements of this program.

PSYCHOLOGY (B.A.)

Major:

Psychology 2310, 2340, 2610; 3810 or 3820	14 sem. hrs.
Electives in psychology	18

Total 32 sem. hrs.
(Major GPA based on psychology courses only.)

PSYCHOLOGY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Psychology 2310, 2340, 2610; 3810 or 3820	14 sem. hrs.
Electives in psychology	18
Psychology 3400 or Social Science 3400	3

Total 35 sem. hrs.
(Major GPA based on Social Science 3400 and psychology courses only.)

Minor: (for teacher certification)

Psychology 2310, 2340, 3400	9 sem. hrs.
Electives in psychology	14
Total	23 sem. hrs.

RECREATION (B.S.)**Major:**

Art 1400 or 1650; 3340	6 sem. hrs.
Elementary Education 2320	3
Geography 3870	3
Geology 1400	4
Health Education 1320 or 3000	2-3
Industrial Arts 1293	3
Life Science 1000, 3010	6
Management 3450 or Economics 4859	3
Music 1421 or 2562	2
P.E. service courses, to include a minimum of one aquatic and one rhythmical activity	6
Political Science 2603	3
Psychology 2310, 4870	6
Recreation 1320, 1780, 2250, 2280, 3510, 3550, 3560, 4410, 4760, 4790, 4800, 4830, 4840	35
Sociology 2710; and one of the following: Sociology 3650, 3681, 3700, 3791, 3801, 3810	6
Theatre Arts 3431	3
Total	93-94 sem. hrs.

(Major GPA based on recreation courses only.)

SAFETY AND DRIVER EDUCATION**Minor:** (for teacher certification; may be used only as a second minor.)

Health Education 3300, 3310, 3320, 3340, 4900	13 sem. hrs.
Choose from the following: Health Education 2270, 3000, 3200, 3350; P.E. 3130; Political Science 2603, 3643; Psychology 3550, 4870	7
Total	20 sem. hrs.

SOCIAL SCIENCE (B.A. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

Economics 2801, 2802, elective in economics	9 sem. hrs.
History 2010, 2020, elective in U.S. history	9
History 1510, 1520; elective in European history	9
Political Science 1104, two elective courses in political science	9-10
Social Science 3400	3
Sociology 2710, two elective courses in sociology	9
Upper division courses from economics, political science, sociology-anthropology (may be in one, two, or three fields)	9
Total	57-58 sem. hrs.

(Major GPA based on anthropology, economics, social science, political science, and sociology courses only.)

Minor: (for teacher certification)

Two of the following options	18-19 sem. hrs.
a. Economics 2801, 2802, plus an elective course in economics. Total sem. hrs.	9
b. Political Science 1104, plus two elective courses in political science. Total, sem. hrs.	9-10
c. Sociology 2710, plus two elective courses in sociology. Total, sem. hrs.	9
Electives from economics, geography, history, political science, sociology-anthropology (may be in one or two fields)	6
Social Science 3400*	3
Total	27-28 sem. hrs.

*Social Science 3400 may be omitted if the student has credit in a methods course in one of the following: business education, English, foreign language, geography, life science, mathematics, physical science, psychology, or speech communication.

SOCIOLOGY (B.A.)**Major:**

Sociology 2710, 3650, 4520, 4611, 4622, 4900	18 sem. hrs.
Anthropology 2730	3
Choose one of the options listed below	18
Total	39 sem. hrs.

I – General Studies in Sociology: Eighteen semester hours electives in sociology.

II – Community Services: Sociology 2720, 3600, 3761, 4730, 4740, 4800. Total, 18 sem. hrs.

III – Community Analysis: Sociology 3622, 3791, 3801, 3810, 4721; Anthropology 4542. Total, 18 sem. hrs.

IV – Criminal Justice: Sociology 2720, 3700, 3761, 4750, 4770; Political Science 3503. Total, 18 sem. hrs.

V – Anthropology: Anthropology 2742, 3251, 3672; nine semester hours of electives in anthropology. Total, 18 sem. hrs.

(Major GPA based on sociology courses only.)

SOCIOLOGY (B.A. FOR TEACHER CERTIFICATION)**Major:** (Standard High School Certificate)

Sociology 2710, 3650, 4520, 4611, 4622, 4900	18 sem. hrs.
Social Science 3400	3
Electives in Sociology	18
Anthropology 2730	3
Choose one of the options listed below	16
Total	58 sem. hrs.

I – 8 semester hrs. in U.S. History and 8 semester hrs. in World History. Total, 16 sem. hrs.

II – 8 semester hrs. in U.S. History and 8 semester hrs. in any history specialization. Total, 16 sem. hrs.

III – 8 semester hrs. in each of two of the following: geography, political science, economics, anthropology. Total, 16 sem. hrs.

(Major GPA based on Social Science 3400 and sociology courses only.)

SPEECH-COMMUNICATION (B.A.)

Major:

Courses chosen from the following: Speech-Communication

1400, 2300, 2320, 2340, 2520, 2540, 3170, 3200, 3230,

3300, 3520, 3530, 3540, 3620, 4000, 4470, 4750, 4760,

4800, 4830, 4860, Theatre Arts 1132, 1133, a maximum

of four semester hours in a combination of Speech-Com-

munication 1102 and 3020 42 sem. hrs.

(Major GPA based on Theatre Arts 1132, 1133, and speech-communication courses only.)

SPEECH-COMMUNICATION (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Speech-Communication 2300, 2320, 2340, 2520, 3400, 4900 18 sem. hrs.

Electives in Speech-Communication other than 1310 9

Two of the following options 24

a. Four courses from: Speech Communication 2540, 3520, 3530, 3540, 4750

b. Speech-Communication 3170, 3200, 3230, 4800

c. Four courses from: Speech Communication 3300, 4470, 4760, 4830, 4860

*d. Theatre Arts 1132, 1133, 2257, 3445

Total 51 sem. hrs.

*Option "d" not available to Speech-Communication majors with Theatre Arts minor.

With the consent of the chairman of the department, Speech-Communication 4000 may be substituted for any of the above courses except 3400.

(Major GPA based on theatre arts and speech-communication courses only.)

Minor: (for teacher certification)

Speech-Communication 2300, 2320, 2340, 2520, 3400, 4900 18 sem. hrs.

Speech-Communication 4750 or 4800 or 4830 3

Total 21 sem. hrs.

SPEECH PATHOLOGY AND AUDIOLOGY (B.S.)

Major:

Physics 1210 3 sem. hrs.

Psychology 2310, 3620, 4750, 4780 12

Speech Pathology and Audiology 1100, 2110, 2140, 2210, 2800,

2830, 3250, 3300, 3410, 3500, 3600 30

Speech Pathology and Audiology 4700 2

Life Science 1000 or a course in bio-chemistry 3

Zoology 3000 3

Total 53 sem. hrs.

(Major GPA based on Theatre Arts 1132 and speech pathology and audiology courses only.)

Undergraduate Recommended Electives:

Educational Psychology 4770, English 2901, 3901, 4902; Home Economics 2850;

Psychology 3600, 4790; Speech-Communication 4830, 4860; Zoology 2000

Note: This program does not meet the requirements for American Speech and Hearing Association certification. To prepare for that certificate students must take this program with the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

Major: (toward teacher certification)

Physics 1210	3 sem. hrs.
Psychology 2310, 3620, 4750, 4780	12
Speech Pathology and Audiology 1100, 2110, 2140, 2210, 2800, 2803, 3250, 3300, 3410, 3500, 3600	30
Speech Pathology and Audiology 4700	2
Life Science 1000 or a course in bio-chemistry	3
Zoology 3000	3
Total	53 sem. hrs.

(Major GPA based on Theatre Arts 1132 and speech pathology and audiology courses only.)

Note: This program does not meet the requirements for the Special Certificate — Speech and Language Clinician (for the Illinois schools) nor the American Speech and Hearing Association of Clinical Competence. To prepare for those certificates students must take this program plus the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

THEATRE ARTS (B.A.)**Major:**

Theatre Arts 1101, 1102, 1132, 1133, 2240, 2244, 2257, 3333, 3357, 3358, 3445, 3751, 3752	35 sem. hrs.
Electives in Theatre Arts	6
Total	41 sem. hrs.

(Major GPA based on theatre arts courses only.)

THEATRE ARTS (B.A. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

Theatre Arts 1101, 1102, 1132, 1133, 2244, 2257, 3333, 3357, 3358, 3445	26 sem. hrs.
Speech-Communication 2320, 2340, 3400	9
One of the options listed below	15
Option 1:	
Theatre Arts 2240, 3751, 3752; electives in theatre arts. Total, 15 sem. hrs.	
Option 2:	
Theatre Arts 3751 or 3752; twelve semester hours in English and/or American literature. Total, 15 sem. hrs.	
Total	50 sem. hrs.

(Major GPA based on theatre arts and speech-communication courses only.)

Minor: (for teacher certification)

Theatre Arts 1132, 1133, 2244, 2257, 3445	15 sem. hrs.
Speech-Communication 3400 or English 3400	3
Total	18 sem. hrs.*

*For State Certification purposes this is a 27 semester hour minor including 9 semester hours of the 41 semester hours of required General Education.

ZOOLOGY (B.S.)**Major:**

Botany 1010	4 sem. hrs.
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Life Science 1000, 3010	6
Zoology 1010, 2100 or 2000; 2200, 3100, 3200; 3700 or 3600 or 4760; 4540	24-26
Electives in mathematics and in the physical sciences	12
Electives in zoology	8-10

Total 64 sem. hrs.
 (Major GPA based on Life Science 1000, 3010 and zoology courses only.)

ZOOLOGY (B.S. FOR TEACHER CERTIFICATION)**Major: (Standard High School Certificate)**

Botany 1010, 1022, 2290, 2300	12 sem. hrs.
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Life Science 1000, 3010, 3400	9
Zoology 1010, 2100, 2200, 3100, 3200, 3300, 3700	26
Electives in the physical sciences	7
Electives in botany	3

Total 65 sem. hrs.
 (Major GPA based on Life Science 1000, 3010, 3400, and zoology courses only.)

the first enrollment for graduate courses. Students who have attended Eastern Illinois University previously must file an application for readmission at least ten calendar days prior to the official enrollment date for the semester in which they wish to enroll. Application blanks may be secured from the Records Office.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses.

Admission of Foreign Students

In addition to the regular application materials, overseas students are required to take the Test of English as a Foreign Language (TOEFL) Examination; the results of the examination must accompany the application blank.

GRADUATE STUDY IN THE SENIOR YEAR

During the final semester of residence in undergraduate work, or the penultimate semester of residence (if the final semester is to be spent in student teaching or internship), a senior may take graduate courses with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. The proper application forms must be completed prior to enrolling in the graduate courses.

Military scholarships are valid for graduate study, and any unused portion of a Teacher Education Scholarship may be applied to graduate study.

GRADUATE ASSISTANTSHIPS

Graduate assistantships are available in departments and certain administrative offices. Appointments are for the academic year or summer session. To be eligible the applicant must have earned an overall 2.50 undergraduate grade point average and been admitted to take graduate courses.

The enrollment fee and out-of-state fees, if applicable, are waived for holders of assistantships.

Applications for the assistantships should be submitted by March 1 of the year of appointment. Further information may be obtained by writing to the Dean of the Graduate School or the major department.

GRADUATE DEGREES OFFERED

MASTER'S DEGREES

MASTER OF SCIENCE IN EDUCATION DEGREE

Aim. It is the purpose of this program to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in the public schools.

Fields.

Business Education
 Educational Administration and Supervision
 Elementary Education
 Guidance and Counseling
 Industrial Arts Education
 Instructional Media
 Physical Science

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

Aim. It is the purpose of these programs to provide intensive study designed to develop advanced scholarship in a particular discipline.

Fields. The following majors have been authorized for the Master of Arts and Master of Science Degrees:

Master of Arts

Art
 Art Education
 Economics
 English
 English Education
 History
 History Education
 Mathematics
 Mathematics Education
 Music
 Music Education
 Political Science
 Psychology
 Sociology
 Speech-Communication
 Speech-Communication Education

Master of Science

Botany
 Botany Education
 Chemistry
 Home Economics
 Home Economics Education
 Physical Education
 P.E. Men, Education
 P.E. Women, Education
 Speech Pathology and Audiology
 Zoology
 Zoology Education

MASTER OF SCIENCE IN LIBRARY SCIENCE**MASTER OF BUSINESS ADMINISTRATION**

Aim. The purpose of this program is to develop professional managers and executives to serve the needs of business and government, to prepare graduates for teaching in junior colleges, and to furnish basic graduate training for those desirous of continuing their graduate work.

SPECIALIST DEGREES*

SPECIALIST IN EDUCATION DEGREE

Aim. It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel.

Fields. The Specialist in Education degree is offered in the fields of educational administration, guidance and counseling, and instructional media.

GRADUATE DEGREE PROGRAM REQUIREMENTS

For detailed descriptions of the various graduate programs offered at Eastern Illinois University, see the *Graduate Bulletin*. Catalogs, application blanks, and other materials may be obtained from the Dean of the Graduate School.

*Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

IX. NON-DEGREE PROGRAMS

The curricula outlined in this section have been formulated as suggested programs which do not lead to graduation. Changes may be made by the student and his advisor without the formality of application for a waiver.

PRE-DENTISTRY

This program is administered by the Pre-Medical Studies Committee. The following minimum two-year program meets the course requirements for admission to most dental schools. All applicants for dental school are required to take a dental aptitude test given by the American Dental Association. Pre-dental students are urged to complete three years of college work before entering dental school. It is recommended that the minimum program be enriched with electives in history, economics, philosophy, sociology, and a modern language.

English 1001, 1002	6 sem. hrs.
Speech 1310	3
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435, 2440	19
Physics (1150, 1160) OR (1350, 1360)	8
Mathematics elective	3
Life Science 1000	3
Zoology 1010, 2100	8
Electives	10
Total	60 sem. hrs.

PRE-ENGINEERING

This two-year program is administered by the Pre-Engineering Studies Committee. Students planning to enroll in pre-engineering are advised to include the following in their high school programs:

Mathematics—four or more units, including trigonometry

Science—three or more units, including chemistry and physics

Students with deficient high school background should expect their graduation with an engineering degree to be delayed.

There are two pre-engineering options, general (appropriate for all except chemical engineering) and chemical. Students interested in the chemical engineering option should consult with the chairman of the Chemistry Department. The minimum general pre-engineering requirements are as follows:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
English 1001, 1002	6
Industrial Arts 1043	3

*Mathematics 1340, 2351, 2352, 2353, 3501	17
Physics 1350, 1360, 2370, 2390, 2400	17
Humanities and Social Studies approved by advisor	12
Total	63 sem. hrs.

*Students who do not have the prerequisites for Mathematics 1340 must start with Mathematics 1320 or Mathematics 1300. See Section X.

PRE-HEALTH RELATED PROFESSIONS

This program is administered by the Pre-Medical Studies Committee. It is a flexible program designed for students who desire one or two years of college work to prepare for admission to professional schools of nursing, optometry, pharmacy, and physical therapy. Detailed information is available in the office of the Chairman, Pre-Medical Studies Committee.

PRE-LAW INFORMATION

There is no single undergraduate curriculum preferred in preparation for the study of law. Most law schools will consider superior students who have completed a baccalaureate degree with a good liberal arts background, regardless of major field. Emphasis should be placed on acquiring skills in clear expression and logical thought. Recommended undergraduate studies include English, economics, philosophy, history, political science, mathematics, and psychology. Some law schools require foreign language study as a prerequisite for entrance, and almost all law schools require an acceptable score on the Law School Admissions Test.

Students interested in preparing for legal studies should consult the Pre-Legal Advisor, Coleman Hall.

PRE-VETERINARY MEDICINE

This two-year program, administered by the Pre-Medical Studies Committee, is designed to prepare students for admission to schools of veterinary medicine.

English 1001, 1002	6 sem. hrs.
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435	16
Physics (1150, 1160) or (1350, 1360)	8
Life Science 1000	3
Botany 1010	4
Zoology 1010	4
Electives, approved by the advisor	19
Total	60 sem. hrs.

LATIN AMERICAN STUDIES

There is no formal curriculum for Latin American Studies. Students who seek knowledge of Latin American affairs, culture, and language are invited to consult with the Latin American Studies advisor for assistance in selecting courses suited to their individual needs. For further information inquire in the College of Arts and Sciences.





X. ACADEMIC ORGANIZATION AND COURSE DESCRIPTIONS

Instruction at Eastern Illinois University is administered by the following organizations:

COLLEGE OF ARTS AND SCIENCES

L. A. Ringenberg, Dean

Department of Botany
 Department of Chemistry
 Department of Economics
 Department of English
 Department of Foreign Languages
 Department of Geography and Geology
 Department of History
 Department of Library Science
 Department of Mathematics
 Department of Philosophy
 Department of Physics
 Department of Political Science
 Department of Psychology
 Department of Sociology and Anthropology
 Department of Speech-Communication
 Department of Speech Pathology and
 Audiology
 Department of Zoology
 Division of Life Sciences
 Division of Social Sciences

W. W. Scott
 S. R. Steele
 E. M. Corley
 J. R. Quivey
 M. M. Miess
 Walter N. Duffett
 W. Schlauch
 Frances Pollard
 A. J. DiPietro
 Ha Poong Kim
 W. A. Butler
 J. T. Connelly
 H. G. Coe
 V. Stoltzfus
 D. B. Morlan
 W. L. Thurman

 G. T. Riegel
 L. Durham, Director
 R. A. Plath, Director

SCHOOL OF EDUCATION

H. J. Merigis, Dean

Department of Educational Adminis-
 tration and Supervision
 Department of Educational Psychology
 and Guidance
 Department of Elementary and Junior
 High School Education
 Department of Instructional Media
 Department of Secondary Education
 and Foundations

R. V. Shuff
 D. L. Moler
 L. M. Grado
 G. W. Scholes
 H. R. Larson

SCHOOL OF BUSINESS

Dean

Department of Accountancy

W. E. Ballsrud

Department of Business Education and
Administrative Office Management
Department of Management
Department of Marketing

T. L. Elliott

W. E. Green
C. L. Fagan

SCHOOL OF FINE ARTS

Dean

Department of Art
Department of Music
Department of Theatre Arts

Walter Sorge, Chairman
Rhoderick Key, Chairman
E. G. Gabbard, Chairman

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

W. S. Lowell, Dean

Department of Health Education
Department of Physical Education
Department of Recreation

J. J. Richardson
W. F. Buckellew
E. L. Bryden

SCHOOL OF HOME ECONOMICS

M. R. Swope, Dean

Department of Home Economics
Education

J. S. Crouse

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

W. D. Coleman, Dean

Industrial Arts Education
Industrial Technology

R. B. Sonderman
W. D. Coleman

COURSE DESCRIPTIONS

In the course description section which follows, courses are shown under the departments which teach them, with the departments listed in alphabetical order.

Generally, courses numbered 1000-1999 are freshman courses; 2000-2999, sophomore courses; 3000-3999, junior courses; 4000-4999, senior courses; and 5000-6999, graduate courses. However, if prerequisites are met students may enroll according to the following schedule.

CLASS

COURSES NUMBERED

Freshman	1000	2000	a	a	
Sophomore	1000	2000	3000	a	
Junior	1000	2000	3000	4000	
Senior	1000	2000	3000	4000	5000-5499b
Graduate				4750-4999	5000-6999

- Courses numbered 3000-4999 in foreign languages, and chemistry may be taken by underclassmen who have prerequisites and permission of the chairman of the department.
- With 3.0 GPA and permission of instructor and Dean of Graduate School.

Numbers in parentheses following the course title indicate the number of class hours per week — laboratory or studio hours per week — credit hours. For example (3-0-3) indicates three hours of classroom work each week, no laboratory hours, and three semester hours credit.

Prerequisites for courses are printed immediately following the course description. A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses

which he has already successfully completed. Should a student violate this prescription, he may not receive credit for the course toward graduation.

Unless indicated as below, courses are offered every term. Offering times indicated are:

F — Fall Semester

S — Spring Semester

Su — Summer Term

ACCOUNTANCY

UNDERGRADUATE COURSES

- 2010. Financial Accounting. (4-0-4)** An introduction to the basic concepts of financial accounting. Not open to freshmen.
- 2020. Management Accounting. (4-0-4)** Uses of accounting data for managerial planning and control. Prerequisite: Accountancy 2010. No credit for graduation if student has credit for Accountancy 4610 or its equivalent. Not open for students enrolled in a curriculum requiring Accountancy 4610.
- 2200. Individual Income Tax. (2-0-2)** An introduction to the basic concepts and procedures of Federal and State Income Tax as they pertain to the individual taxpayer and the small business enterprise.
- 3000. Cost Accounting. (4-0-4).** The usefulness and limitations of cost accounting with emphasis upon cost control and cost analysis. Prerequisite: Accountancy 2020.
- 3040. Financial Accounting Theory I. (5-0-5).** The fundamental nature of accounting communication embraced by a study of accounting statements, their form of presentation, and accounting terminology. Prerequisite: Accountancy 2020.
- 3050. Financial Accounting Theory II. (5-0-5).** Financial accounting measurement including: the determination of periodic income, revenue recognition, cost allocation, flow of funds, inventory valuation, depreciation theory, liability recognition, and corporate equity measurement. Prerequisite: Accountancy 3040.
- 3700. Socio-economic Accounting. (2-0-2)** S. Special nature of accounting for social systems and special economic units. Budgets, fund accounting characteristics, cost accounting, and the structure of social income accounts. Prerequisites: Accountancy 2020 and Economics 2801.
- 3800. Introduction to Operations Research. (3-0-3)** Su, F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Prerequisite: Mathematics 1290 or 1300. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.
- 4000. Development of Accounting Thought. (2-0-2)** F. An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accountancy 3050 or permission of the instructor.
- 4610. Federal Income Tax. (4-0-4)** F, S. Tax accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and concepts. Prerequisite: Accountancy 2020.
- 4670. C.P.A. Problems. (3-0-3)** Su, S. Accounting theory and practice on a professional level. Analysis and study of selected questions from C.P.A. examinations. Prerequisites: Accountancy 3000, 3050, and 4610.

- 4740. Independent Study. (Arr.-Arr.-1 to 4)** Individual study programs. The student will be assigned material from literature in accounting in cooperation with the department chairman. A written formal report based upon these readings must be submitted. Prerequisites: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Accounting Systems. (3-0-3) (Omitted 1974-75)** An introduction to basic concepts and standards of accounting system design. Prerequisite: Accountancy 3000.
- 4800. Budgeting. (3-0-3) F.** Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Prerequisite: Accountancy 2020. Offered in Accountancy and Management. A student may take the course for credit in only one of the departments.
- 4850. Auditing. (4-0-4)** The examination and verification of financial statements for the purpose of establishing their reliability, including advanced techniques. Prerequisites: Accountancy 3000, 3050, and permission of the chairman of the department.
- 4900. Advanced Federal Tax. (3-0-3) S.** Emphasis on partnership, corporation, fiduciary tax problems. Gift, estate, inheritance taxes. Corporate tax case research. Prerequisite: Accountancy 4610.
- 4950. Internship in Accounting. (Arr.-Arr.-8)** Employment experience in public, industrial or governmental accounting in an approved firm. Prerequisite: Permission of the chairman of the department and acceptance of the student by a business firm.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5100. Theoretical Issues in Accounting. (3) Su.** An analysis of accounting concepts, viewed in an ideal framework. For teachers of business subjects having a minimum of one year of accounting.
- 5300. Quantitative Analysis. (3) F.** Designed to provide students with skills in quantitative techniques necessary for advanced work in functional areas of business administration.
- 5600. Management Control. (3) F.** A case approach for analyzing management control problems. Prerequisite: Accountancy 2020.
- 5620. Operations Research. (3) S.** Principles and methods of operations research: topics in linear programming; PERT, inventory models, queuing theory, simulation, and probability theory. Prerequisite: Accountancy 5300 or Mathematics 2110.
- 5800. Seminar in Accounting Theory. (3) S.** An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accountancy 2020.
- 5900. Business Research Methods. (2) F.** Business research methodology including the meanings of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.
- 5950. Thesis. (3 to 6)** The development of the method of attack and the execution of a formal

research study in the area of accountancy. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

- 5990. Independent Study. (1 to 6)** The study of a problem within the area of accountancy in cooperation with the assigned instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

ANTHROPOLOGY

UNDERGRADUATE COURSES

- 2730. Introduction to Cultural Anthropology. (3-0-3)** A study of the cultures of the world, kinship systems, major institutions and social structure.
- 2742. Introduction to Physical Anthropology and Archaeology. (3-0-3)** S. Investigation of man's place in nature; emphasis on principles of biological and cultural evolution as reflected by archaeological evidence.
- 3251. Social Structure. (3-0-3)** F. A review of social systems, including kinship, political and economic systems in selected culture areas. Prerequisite: Anthropology 2730.
- 3602. Peoples and Cultures of South America. (3-0-3)** S. The pre-Columbian background; culture and social organization of selected contemporary Latin American societies. Prerequisite: Anthropology 2730.
- 3611. Peoples and Cultures of Africa. (3-0-3)** F. A study of the peoples and cultures of Africa, including a delineation of broad cultural areas. An in-depth description of selected societies and a cross-cultural comparison of certain institutions such as religions, political systems and family structures. Prerequisite: Anthropology 2730 or with consent of the instructor.
- 3672. Introduction to Prehistoric Archaeology. (3-0-3)** S. Study of the history, method, theory and goals of archaeology; interpretation and analysis of prehistoric cultures. Prerequisite: Anthropology 2730, 2742.
- 3680. Midwest Prehistory. (3-0-3)** F. A study of midwestern archaeology including both major cultures and regional variations. Their chronology and inter-relationships will be stressed. Prerequisite: Anthropology 2730, 2742.
- 3691. North American Indians. (3-0-3)** F. A survey of the native population of North America, emphasizing the importance of cultural adaptation to environment. Prerequisite: Anthropology 2730.
- 4542. Theories of Culture and Social Change. (3-0-3)** S. An investigation of anthropological theories and models which have contributed to an understanding of culture and social change. Prerequisite: Anthropology 2730.

ART

Note: Studio courses meet for double periods. Discussions and critiques may be incorporated into the studio hours.

The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

UNDERGRADUATE COURSES

- 1000. Drawing I. (0-8-4)** Drawing in various media; studies from nature and the live model.

Prerequisite: Major or minor in art, or Junior High School curriculum with Field II in art. Also Industrial Arts and Industrial Technology majors.

- 1110. Design. (0-8-4)** Development of concepts of two and three dimensional form creation through studio work. Credit is not given to students who have received credit for Art 1400. Prerequisite: Major or minor in art. For Industrial Arts and Industrial Technology majors, and Junior High School curricula with Field II in Art.
- 1400. Introduction to Art. (1-4-3)** Study of the fundamentals of art through studio problems in creative design. Prerequisite: Enrollment in elementary and junior high school education or special education or recreation. Credit is not given to those students who have credit for Art 1110 or 1650.
- 1650. Theory and Fundamentals of Art. (2-4-3)** Study of the basic aspects of the creation of form in the visual arts; studio experiences included. May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is in art or who have credit for Art 3601 or 1400.
- 2000. Drawing II. (0-6-3)** Varied approaches to drawing the human figure, anatomical study and analysis of muscular and skeletal systems of the human body at rest and in movement. Prerequisite: Art 1000.
- 2050. Painting I. (0-6-3)** Introduction to painting as a medium of expression; variety of approaches and media explored. Prerequisite: Art 1000 and 1110, or Art 1400 and Junior High School curriculum with Field II in art.
- 2100. Sculpture I. (0-6-3)** More specific work in three-dimensional organization of form; carving, constructing, assembling and welding are techniques to be explored. Prerequisite: Art 1110 or 3190.
- 2250. Ceramics I. (0-6-3)** Introduction to various hand building techniques, decorative methods, firing processes and use of the potter's wheel. Prerequisite: Art 1000 and 1110 for art majors and minors only; or Art 1400 for Junior High School curriculum with Field II in art.
- 2410. Art Education for Elementary Schools. (1-4-3)** The basic philosophy of art education for all ages. Study of developmental stages through grade six with appropriate exploratory studio creative projects. For art majors and minors only, or Junior High School curriculum with Field II in art. Not open to students who have credit in Art 2440.
- 2440. Art for Teachers in the Elementary Grades. (0-4-2)** A methods course in the philosophy of teaching art to children including the developmental stages of creative activity and appropriate media for each. Studio experiences. Prerequisites: Art 1400 and enrollment in elementary and junior high school education or special education. Not open to students who have credit in Art 2410.
- 2560. Printmaking I. (0-6-3)** Survey and exploration of four methods of printmaking. Prerequisite: Art 1000.
- 2601. History of Art I. (4-0-4)** F. Survey of the visual arts, prehistoric through the Gothic period. Prerequisite: For art majors and minors only.
- 2602. History of Art II. (4-0-4)** S. Survey of the visual arts, early Renaissance to the present. Prerequisite: Art 2601. Art majors and minors only.
- 2700. Introduction to Jewelry and Silversmithing. (0-6-3)** Fundamental techniques in the constructive and decorative processes of jewelry creation with various metals. Prerequisite: Art 1000 and 1110; or Art 1400 and Junior High School curriculum with Field II in art.
- 2800. Introduction to Weaving. (0-6-3)** Procedures involved in dressing the loom; development of various weaves using color, texture, materials. Prerequisite: Art 1110 or 1400.
- 2900. Lettering. (0-6-3)** F. Study of basic style letters with the development of skills in lettering with pen, pencil, brush techniques.

- 3000. Drawing III. (0-6-3)** Continuing study of drawing designed to develop individual sensitivity to graphic expression. Prerequisite: Art 2000.
- 3051. Painting II. (0-6-3)** Advancement of painting in progressive stages. Prerequisite: Art 2050.
- 3052. Painting III. (0-6-3)** Continuation of Art 3051. Prerequisite: Art 3051.
- 3080. Watercolor. (0-6-3) S, Su.** A painting course in transparent media. Prerequisite: Art 2050, or Junior High School curriculum with Field II in art.
- 3090. Survey of Two-Dimensional Art. (0-6-3) S, Su.** Studio experiences in drawing, painting, and printmaking. Prerequisites: Art 1400 or Art 1650. Not open to art majors and minors.
- 3111. Sculpture II. (0-6-3)** Advanced work in three-dimensional organization of form. Prerequisite: Art 2100.
- 3112. Sculpture III. (0-6-3)** Individual concentration toward more competent expression in three dimensions. Prerequisite: Art 3111.
- 3190. Survey of Three-Dimensional Art. (0-6-3) F, Su.** A study in three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry, or crafts. Credit is not given to students who have received credit for Art 1110. Prerequisite: Art 1400 or 1650. Not open to art majors and minors.
- 3251. Ceramics II. (0-6-3)** Projects in hand building or throwing; study of glaze materials and glaze calculation. Prerequisite: Art 2250.
- 3252. Ceramics III. (0-6-3)** Continuation of Art 3251. Prerequisite: Art 3251.
- 3300. Afro-American Art. (3-0-3) Su, F.** Contribution of the Negro people to the art of the western world.
- 3340. General Crafts. (0-6-3)** General course in crafts with emphasis on problems in varied media; mosaic, wood, glass, block printing, batik, macram. Prerequisite: Art 1110 or 1400 or 1650.
- 3410. Art Education for Secondary Schools. (1-4-3)** Philosophy and special problems related to teaching art in the junior and senior high school with appropriate studio experiences including Saturday art classes for children; preparation for student teaching. Required for and open only to art majors and minors in teacher training curriculum. Prerequisite: Art 2410; or 2440 and Junior High School curriculum with Field II in art.
- 3570. Printmaking II. (0-6-3)** Intensive exploration of methods of printmaking with emphasis on new approaches to personal expression. Prerequisite: Art 2560.
- 3601. Understanding Art. (3-0-3)** An introduction to the nature, creation, perception, understanding and evaluation of the visual arts. Not open to students whose major is in art. The course is recommended as partial fulfillment of the humanities requirement. Credit not given to students who have credit in Art 1650.
- 3602. Art in Past Cultures. (3-0-3)** Comparative study of subject, form and content in art of past cultures as it relates to purpose and style. Prerequisite: Art 3601. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
- 3603. Twentieth Century Art Forms. (3-0-3)** Origins and developments in Twentieth Century art. Prerequisite: Art 3601. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
- 3630. Classical Art. (3-0-3) F.** Study of dominant stylistic tendencies and major figures in Greek, Hellenistic and Roman art. Prerequisite: Art majors, Art 2602 or Art 3601.
- 3640. Medieval Art. (3-0-3) F.** Arts of the Early Christian, Byzantine, Early Medieval, Romanesque and Gothic periods. Prerequisites: Art majors, Art 2602 or Art 3601.

- 3650. Art of the Italian Renaissance. (3-0-3) S.** Evolution and development of art forms in Italy during the Fifteenth and Sixteenth Centuries. Prerequisites: Art majors, Art 2602 or Art 3601.
- 3660. European Art of the Seventeenth and Eighteenth Centuries. (3-0-3) S.** Study of the Baroque style in Italy and Northern Europe, including Rococo manifestations and relationship with the Baroque movement. Prerequisites: Art majors, Art 2602 or Art 3601.
- 3670. Nineteenth Century European Painting. (3-0-3) F.** Leading artists, movements, and trends found in the painting and culture of Western Europe during the Nineteenth Century. Prerequisites: Art majors, Art 2602 or Art 3601.
- 3680. Twentieth Century Painting and Sculpture. (3-0-3) F, S.** Major artists, developments, and significant achievements in painting and sculpture of the Twentieth Century. Prerequisites: Art majors, Art 2602 or Art 3601.
- 3690. Twentieth Century Architecture. (3-0-3) S.** Architecture of the Twentieth Century; its roots in the past, its forms, its materials, its masters and its social impact. Prerequisites: Art majors, Art 2602 or Art 3601.
- 3701. Jewelry and Silversmithing II. (0-6-3)** Advanced problems in jewelry construction developing the previously learned fundamentals in metal construction and introducing basic silversmithing processes. Prerequisite: Art 2700.
- 3702. Jewelry and Silversmithing III. (0-6-3)** A continuation of Art 3701. Prerequisite: Art 3701.
- 3801. Weaving II. (0-6-3)** Study of the theory of weaving. Experimentation and practice in design characteristics of weaves and materials. Prerequisite: Art 2800.
- 3802. Weaving III. (0-6-3)** Advanced study of theory of weaving with individual concentration in designing on the loom. Further mastery of the media is stressed. Prerequisite: Art 3801.
- 3820. Weaving and Textile Design. (0-6-3)** Pattern design principles as they apply to historical and contemporary textiles. Studio experiences may include work in weaving, silk screen, block printing, batik and stitchery. Prerequisite: Art 1110 or 1400.
- 3901. Visual Communication I. (0-6-3)** Introduction to advertising layout; survey from business viewpoint and consumer market with study of typography, lettering and processes of reproduction.
- 3902. Visual Communication II. (0-6-3)** Continuation of Art 3901 with more depth of experiences in problems involving air brush, silk screen mechanics, and other processes in reproduction. Prerequisite: Art 3901.
- 4000. Drawing IV. (0-6-3)** Advanced drawing which is directed toward mastery of media and personal style. Prerequisite: Art 3000.
- 4051. Painting IV. (0-6-3)** Attention centered on depth of expression through individual problems. Prerequisite: Art 3052.
- 4052. Painting V. (0-6-3)** Continuation of Art 4051. Prerequisite: Art 4051.
- 4111. Sculpture IV. (0-6-3)** Advanced study of sculpture directed toward mastery of form and materials and the development of a personal style. An individual plan of work must be presented upon registration for the course. Prerequisite: Art 3112 and permission of the instructor.
- 4112. Sculpture V. (0-6-3)** Continuation of Art 4111 with an increasing depth of mastery expected. Prerequisite: Art 4111 and permission of the instructor.
- 4251. Ceramics IV. (0-6-3)** Development of techniques and processes to a level of professional attainment; emphasis upon growth in area of student's interest. Prerequisite: Art 3252.

- 4252. Ceramics V. (0-6-3)** Continuation of Art 4251 with increasing depth of mastery. Prerequisite: Art 4251.
- 4400. Independent Study. (0-6-3)** Work in special problems selected to fulfill needs of the student. Prerequisites: Individual plan and permission of the instructor and chairman of the department, plus nine semester hours in the area of proposed study.
- 4580. Printmaking III. (0-6-3)** Individual selection of printmaking processes and problems. Prerequisite: Art 3570.
- 4650. The Visual Arts in the Elementary and Junior High School. (3-0-3)** S. Our cultural heritage in visual arts for teachers and approaches to fostering appreciation for this heritage. Prerequisite: Art 2440 or 2410. Not open to students whose major is in art.
- 4701. Advanced Metalsmithing I. (0-6-3)** Problems in casting, chasing, repousse. Introduction to "Dutch, English, and non-resistant" raising; forming of seamed hollowware; hot forging. Prerequisite: Art 3702.
- 4702. Advanced Metalsmithing II. (0-6-3)** Continuation of Art 4701 with further mastery of techniques. Prerequisite: Art 4701.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Sources and Methods of Art History Seminar. (2-0-2)** S. Study of archaeological and documentary sources relative to the writing of art history; the systematic correlation of factual information. Prerequisite: Six semester hours of art history 3630 or above.
- 4760. Art of the Ancient World. (3-0-3)** F. A study of the art of Mesopotamia, Egypt, and up to the Archaic period of Hellenistic cultures.
- 4790. Problems in Art History and Criticism. (2-0-2)** Individual studies and directed research in selected areas of art history. Prerequisites: Art majors and minors only.
- 4800. Advanced Weaving. (0-6-3)** Advanced problems in weaving with particular emphasis upon design using multi-harness looms and double weave techniques to perfect skills. Prerequisite: Art 3802.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5100. Materials for Designing I. (2)** Experimentation with various materials, their limitations and possibilities. Problems vary to meet individual needs.
- 5200. Painting Problems I. (3)** Emphasis is placed upon the construction and development of form in painting. Prerequisite: Three undergraduate courses in painting.
- 5400. Problems in Art Education. (3)** Analysis of individual and typical problems of teaching art in the public school or junior college. Prerequisites: Art 3410 and one year of teaching experience in art.
- 5560. Contemporary Printmaking. (3)** A study of styles and techniques of contemporary printmakers. Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.
- 5571, 5572. Advanced Ceramics. (3 each course)** Problem in ceramic design and construction with emphasis upon developing the individual's style and competence. Prerequisite: Nine semester hours undergraduate ceramics.

- 5600. Materials for Designing II. (2)** Advanced study of problems of form. Prerequisite: A course plan arranged with the instructor and approved by the chairman of the department.
- 5610. Advanced Drawing. (3)** Development of personal expression in drawing and marking systems. Prerequisite: Three courses in drawing or permission of the instructor.
- 5620. Watercolor. (3)** Advanced study in various watercolor media. Prerequisite: Two courses in painting.
- 5671, 5672. Advanced Sculpture. (3 each course)** Student to direct his study toward greater personal mastery of form, medium, and style. Prerequisite: Art 3112 or equivalent and permission of the instructor and the chairman of the department.
- 5701. Painting Problems II. (3)** Independent study in painting directed toward greater personal expression. Prerequisite: Art 5200.
- 5702. Painting Problems III. (3)** Continuation of Art 5701. Prerequisite: Art 5701.
- 5771. Problems in Metalsmithing I. (3)** Advanced problems in metalsmithing with experimentation and development in a specific area. Historic and contemporary references will be included. Prerequisite: Eight semester hours equivalent to Art 2700 and 3701.
- 5772. Problems in Metalsmithing II. (3)** Continuation of Art 5771. Prerequisite: Art 5771.
- 5800. Research in Art Education. (2)** Familiarization with methods and structure of research in art education and the initiation of research projects to be carried out in the student's own classroom while teaching. Prerequisite: Graduate standing with a major in art.
- 5850. Art Internship. (3)** Seminar discussion of various procedures in teaching college art courses and supervised intern teaching of prepared lessons within the department.
- 5871, 5872. Problems in Nineteenth and Twentieth Century Art I and II. (3 each course)** Individual problems in the art expression of these two centuries. Seminar discussion and research papers relative to various stylistic developments.
- 5900. Research in Art. (2)** Investigation into various procedures of research and their preparation in all art fields.
- 5950. Thesis. (3 to 6)** Prerequisite: Art 5900. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

BOTANY

UNDERGRADUATE COURSES

- 1010. General Botany. (1-6-4)** An audio-tutorial laboratory approach to the study of plants with particular emphasis on their structure, function, and economic importance. Prerequisite: Life Science 1000.
- 1022. Survey of Local Flora. (1-2-2)** S, Su. The recognition and identification of common local wild and cultivated seed plants. Prerequisite: Botany 1010.
- 2290. Morphology of Lower Plants. (1-4-3)** The classification, structure, life-history, and importance of the algae and fungi. Prerequisite: Botany 1010.
- 2300. Morphology of Higher Plants. (1-4-3)** The classification, structure, life-history, and importance of the bryophytes and vascular plants. Prerequisite: Botany 1010.

- 2320. Economic Botany. (2-0-2)** The origin, development, diversity, and horticultural uses of cultivated plants. Prerequisite: Botany 1010.
- 2340. Applied Microbiology. (2-2-3)** The structure, identification, and importance of microorganisms with particular emphasis on consumer microbiology. Not open to those with credit or registration in Botany 3250 or Botany 3350. Not to count toward a botany major; designed primarily for students in home economics, elementary and junior high school curricula.
- 2503. Tropical Botany. (3-10-(2-8) Su.** (Two weeks on campus and six weeks in Mexico) The taxonomy and ecology of the plants of Mexico. Prerequisite: Botany 1010 or permission of the chairman of the department. Only three semester hours may count toward major and/or minor and/or distribution requirements. The maximum amount of credit which may be earned is eight semester hours.
- 3320. Elementary Medical Microbiology. (1-4-3) S.** The basic principles and laboratory procedures of medical microbiology. Prerequisites: One year of biological science and one year of chemistry. Not open to those with credit or registration in Botany 3350. Designed primarily for students in the medical technology and other medically oriented curricula.
- 3350. Bacteriology. (1-4-3)** The basic principles and laboratory procedures for the study of bacteria. Prerequisites: One year of biological science and one year of chemistry. Not open to those with credit or registration in Botany 3250. Designed primarily for students in the biological science curricula.
- 3361. Genetics. (1-4-3) Su, S.** The principles of heredity and variations in plants. Prerequisite: One year of biological science. Not open to those with credit or registration in Zoology 3200.
- 3450. Independent Study. (Arr.-Arr.-1-3)** The student must submit to the chairman of the department, prior to registration, an outline of his proposed study, and be assigned credit and an instructor under whom the research will be done. Upon completion of the study, a written report suitable for publication will be submitted to the chairman of the department for credit evaluation and an oral report presented before a departmental seminar. Prerequisite: Two years of biological sciences and permission of the chairman of the department. May be taken more than once up to a total of three semester hours.
- 3541. Plant Physiology. (2-4-4)** The study of water relations, mineral nutrition, phytohormones, photosynthesis, respiration, physiological ecology, and the metabolic effects on plant growth and development. Prerequisites: Botany 1010 and one year of chemistry.
- 4362. Mycology. (1-4-3) S, Su.** The structure, classification, life-history, and economic importance of the fungi. Prerequisite: Botany 2290.
- 4532. Plant Microtechnique. (1-4-3) Su, F.** The basic principles and laboratory techniques for the preparation of plant material for microscopic study. Prerequisite: Botany 1010.
- 4611. Plant Ecology. (1-4-3) F, Su.** The study of the structure, successional patterns, and investigative techniques of plant communities. Prerequisite: Two years of biological sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Lichens. (0-4-2) F, Su.** The structure, identification, and importance of lichens. Prerequisite: Botany 2290.
- 4801. Systematic Botany. (1-4-3) F, Su.** The classification and characteristics of the common families of flowering plants. Prerequisites: Botany 1010 and Botany 1022.
- 4851. Plant Anatomy. (1-4-3) Su, S.** The study of the tissues and cellular elements which comprise the vegetative plant body of seed plants. Prerequisite: Botany 2300.
- 4882. Phycology. (1-4-3) S, Su.** The structure, classification, life-history, and economic importance of the algae. Prerequisite: Botany 2290.

- 4901. Plant Pathology. (1-4-3) F, Su.** The basic principles of plant disease with emphasis on symptoms, causal agents, and control. Prerequisite: Botany 2290.
- 4990. Seminar. (0-2-1) F, S.** Reports and discussions of selected topics in botany. Prerequisites: Two years of biological sciences and permission of the chairman of the department. May be taken more than once but for no more than four semester hours.

GRADUATE COURSES (ON DEMAND)

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students).

- 5202. Plant Geography. (3)** The study of factors influencing the distribution of North American plants. Prerequisite: Botany 4611.
- 5321. Bryology. (4)** The structure, identification, life-history, and importance of the mosses and liverworts. Prerequisite: Botany 2300.
- 5351. Advanced Bacteriology. (5)** The principles of bacterial cytology and physiology. Prerequisites: Botany 3350 and Chemistry 2430; bio-chemistry recommended.
- 5362. Fungi I, Phycomycetes. (4)** The structure, identification, and importance of the lower fungi. Prerequisite: Botany 2290; Botany 3350 recommended.
- 5371. Fungi II, Ascomycetes and Basidiomycetes. (4)** The structure, identification, and importance of the higher fungi. Prerequisite: Botany 2290.
- 5452. Ethnobotany. (3)** The basic principles of the relationships of plants and man. Prerequisites: Botany 1010 and 2320.
- 5472. Advanced Plant Physiology I, Inorganic Nutrition. (4)** The principles of water relations in plants with emphasis on absorption, translocation, and the function of inorganic mineral elements. Prerequisites: Botany 3541 and Chemistry 2430; biochemistry recommended.
- 5482. Advanced Plant Physiology II, Metabolism. (4)** The principles of photosynthesis, respiration, and organic translocation. Prerequisites: Botany 3541 and Chemistry 2430; biochemistry recommended.
- 5602. Cytotaxonomy. (5)** The structure and function of chromosomes and their relationship to the evolution and taxonomy of seed plants. Prerequisites: Botany 3361 or Zoology 3200; and Botany 4801.
- 5611. Advanced Plant Ecology. (5)** The laboratory analysis of soils and vegetation; microenvironmental measurements and physiological procedures used in ecological studies. Prerequisite: Botany 4611.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Advanced studies in a selected field of Botany other than the thesis. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

BUSINESS EDUCATION AND ADMINISTRATIVE OFFICE MANAGEMENT

UNDERGRADUATE COURSES

- 1110. Basic Typewritten Communication. (3-1-3) F, S.** Kinesthetic typewriting techniques with emphasis on typewriting as a communication tool. No credit for students having had equivalent of one semester of typewriting instruction.

- 1120. Intermediate Typewritten Communication. (3-1-3) F, S.** Business and personal applications of typewriting for communications and reports. No credit for students having had equivalent of one year of typewriting instruction.
- 1240. Shorthand Theory. (3-1-3) F, S.** Introduction to Gregg Shorthand. No credit for students having had equivalent of one semester of shorthand instruction.
- 1250. Intermediate Shorthand. (3-1-3) F, S.** Speed building and transcription. No credit for students having had equivalent of one year of shorthand instruction.
- 2110. Office Production Practicum. (3-1-3) F, S.** Office production typewriting to meet business standards. Prerequisite: Business Education 1120 or equivalent.
- 2240. Advanced Shorthand/Transcription. (3-1-3) F, S.** Dictation and transcription for executive secretarial responsibility. Prerequisites: Business Education 1250 or equivalent and 2110 (may be taken concurrently).
- 2250. Executive Secretarial Procedures. (3-0-3) F, S.** Simulated office activities with emphasis on preparation for executive secretarial responsibilities. Prerequisite: Business Education 2240 or equivalent.
- 3000. Consumer Education. (3-0-3) F, S.** Factors affecting family financial management, including investments and savings, use of credit, insurance and taxes. Team taught with Home Economics 3300.
- 3220. Office Machine Computation. (3-1-3) F, S.** Application of adding and calculating machine processes to business and statistical computation.
- 3230. Administrative Office Services. (3-0-3) F, S.** Application of office skills to systems and procedures of administrative functions utilizing simulation. Prerequisites: Business Education 1120 or equivalent and junior standing.
- 3400. Methods of Teaching Business. (2-0-2) F, S.** Foundations of business education, curriculum sources of assistance for the classroom teacher, and techniques of planning and evaluation for the business curriculums.
- 3410. Basic Business and Consumer Education Methods. (2-0-2) F, S.** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the basic business subjects. Prerequisite: Business Education 3400.
- 3420. Shorthand Methods. (2-0-2) F, S.** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the secretarial business subjects. Prerequisites: Business Education 1250 or equivalent and 3400.
- 3430. Accounting Methods. (2-0-2) F, S.** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in accounting courses. Prerequisite: One year of collegiate accounting and Business Education 3400.
- 3440. Typewriting and Office Procedures Methods. (2-0-2) S.** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the clerical business subjects. Prerequisites: Business Education 1120 or equivalent and 3400.
- 4000. School Business Management Internship. (Arr.-Arr.-3) F, S.** School business practices are studied under the direction and supervision of a school business manager. Prerequisites: Admission to teacher education and permission of the chairman of the department.
- 4740. Independent Study. (Arr.-Arr.-3) F, S.** Student selects problem area in cooperation with instructor, conducts program of organized research and reading, prepares written formal report. Prerequisites: Senior standing and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Office Management. (3-0-3) S.** Duties and responsibilities of the office manager and supervisor.

- 4920. Organization and Operation of Vocational Business Education Programs. (3-0-3) F, S.** Vocational office and distributive education programs as provided by the Vocational Education Act of 1963 and Amendments to that Act.
- 4940. Coordination Techniques in Vocational Business Education. (3-0-3) F, S.** Duties and responsibilities of the Office Occupations and Distributive Education coordinator in a reimbursable vocational program.
- 4950. Internship in Business Education. (Arr.-Arr.-3) F, S.** A minimum of 360 hours employment in a firm approved by the instructor; a training memorandum and approval prior to enrollment is required. Prerequisite: Acceptance of the student by a business firm and by the instructor as evidenced by a training memorandum.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5050. Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5090. Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5190. Foundations of American Business. (3) Su.** The historical development of American business and industry. The evolution of business practices and principles.
- 5200. Practicum in Data Processing. (3) Su.** Nature and function of unit record with special emphasis on the development of teaching materials. Not open to students with credit in Management 2300 or equivalent.
- 5700. Foundations of Business Education. (3) Su.** Philosophies and objectives of business education, evolution of the business curriculum, developments in occupational business education.
- 5720. Issues and Trends in Business Education. (3) Su.** Current issues and problems in business education curriculum and practices which arise from needs and interests of students.

- 5730. Measurement and Evaluation in Business Education. (3) Su.** Testing techniques; construction of tests in cognitive and skill areas; statistical procedures necessary for test interpretation and use.
- 5740. Improvement of Instruction in Basic Business and Consumer Education. (3) Su.** Methods and techniques of teaching; development of materials; research in the areas of basic business and consumer education courses.
- 5750. Improvement of Instruction in Office Procedures and Data Processing. (3) Su.** Methods and techniques of teaching; instructional materials and media; research in office procedures and data processing courses.
- 5760. Improvement of Instruction in Shorthand and Secretarial Skills. (3) Su.** Methods and techniques of teaching; instructional media, materials and equipment; research in shorthand and secretarial skill courses.
- 5770. Touch Shorthand in the Secretarial Studies Curriculum. (3) Su.** Specific teaching techniques, initial mastery and development of basic recording skill in touch shorthand. Prerequisite: Basic ability in a system of manual shorthand. Laboratory fee to cover cost of machine rental and supplies.
- 5780. Improvement of Instruction in Typewriting. (3) Su.** Methods and techniques of teaching; instructional media, materials, and equipment; research significant to the teaching of typewriter-related skills.
- 5790. Improvement of Instruction in Bookkeeping and Accounting. (3) Su.** Methods and techniques of teaching, development of materials, research in bookkeeping, record keeping, and general business courses.
- 5900. Research in Business Education. (3) F, Su.** Analysis and evaluation of research in business curricular area; introduction to research technique and preparation of formal research report.
- 5950. Thesis. (3 to 6)** Plan, design, and conduct of research culminating in formal written report of research findings, conclusions, and recommendations. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Student selects problem area in cooperation with instructor, conducts program of organized research and reading, prepares written formal report. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

CHEMISTRY

Chemistry 1100 and 1110 is a year's sequence planned as a general cultural course and is open only to non-science majors.

For all other students Chemistry 1310 (lecture) and 1315 (laboratory) is taken the first semester. For the student who has had no high school chemistry or whose background in chemistry is weak, Chemistry 1300 should be taken instead of 1310. There is one additional meeting per week and thus the pace is slower.

For the second semester, Chemistry 1410 (lecture) and 1415 (laboratory) is offered for those whose interest is in the biological sciences and the various pre-professional programs in the medically related fields. Chemistry 1510 (lecture) and 1515 (laboratory) is offered for those whose interest is in the physical sciences, mathematics and pre-engineering. Chemistry majors should take Chemistry 1720 instead of 1515.

The following sequences are acceptable for credit toward graduation: Chemistry 1100, 1110; Chemistry 1300 or 1310 and 1315, 1410 and 1415; Chemistry 1300 or 1310 and 1315, 1510 and 1515 or 1720.

Note: A breakage fee of \$5 is charged for laboratory courses in Chemistry. The unused portion is returnable at the end of the course.

UNDERGRADUATE COURSES

- 1100, 1110. A Survey of Chemistry.** **1100 (3-2-4) 1110 (2-2-3) 1110 S, Su.** A two semester terminal course covering the principles and cultural aspects of inorganic, organic and biochemistry. To be taken in sequence. These courses may not be used as a prerequisite to advanced work in chemistry. Not open to majors in botany, chemistry, geology, mathematics, physics, zoology or any of the pre-professional programs in engineering or the medically related fields.
- 1300. Introductory Chemistry. (4-0-3) F, S.** An introductory course for those with no high school chemistry or weak background. The same as Chemistry 1310 but at a slower pace. Chemistry 1315 must be taken concurrently.
- 1310. General Chemistry I. (3-0-3)** A basic course covering fundamental principles. Chemistry 1315 must be taken concurrently. Prerequisite: One year of high school chemistry.
- 1315. General Chemistry Laboratory I. (0-3-1)** Must be taken concurrently with either Chemistry 1300 or 1310.
- 1410. General Chemistry II - Bio-science. (3-0-3)** The second semester of the general chemistry sequence - specifically designed for biological science majors and those in the various medical fields. Chemistry 1415 must be taken concurrently. Prerequisites: Chemistry 1300 or 1310; 1315.
- 1415. General Chemistry Laboratory II - Bio-science. (0-3-1)** Must be taken concurrently with Chemistry 1410.
- 1510. General Chemistry II - Physical Science. (3-0-3) S.** The second semester of the general chemistry sequence - specifically designed for physical science, mathematics and pre-engineering majors. Chemistry 1515 or 1720 must be taken concurrently. Prerequisites: Chemistry 1300 or 1310, 1315.
- 1515. General Chemistry Laboratory II - Physical Science. (0-3-1) S.** Must be taken concurrently with Chemistry 1510 unless Chemistry 1720 is elected.
- 1720. Elementary Quantitative Analysis. (1-6-3) S.** Principles of gravimetric, volumetric and potentiometric analysis. To be taken concurrently with Chemistry 1510 unless Chemistry 1515 is elected. Prerequisite: One semester of college mathematics. Primarily for but not restricted to chemistry majors. Credit not granted for both Chemistry 1720 and 2340.
- 2340. Quantitative Analysis. (1-6-3)** The general principles of volumetric and gravimetric analysis with an introduction to spectrophotometry. Prerequisites: Chemistry 1410 and 1415 or 1510 and 1515; one semester of college mathematics. Credit not granted for both Chemistry 1720 and 2340.
- 2430. Organic Chemistry I. (4-0-4)** Studies in aliphatic and aromatic compounds with an introduction to the theories of organic chemistry and reaction mechanisms. Prerequisites: Chemistry 1410 and 1415, or 1510 and 1515. Credit not granted for those with credit in Chemistry 2830.
- 2435. Organic Chemistry Laboratory. (0-3-1)** To be taken concurrently with Chemistry 2430.
- 2440. Organic Chemistry II. (2-3-3) Su, S.** A continuation of Chemistry 2430. Prerequisite: Chemistry 2430. Credit not granted for those with credit in Chemistry 2840.
- 2600. Introduction to Medical Technology. (1-2-2) S.** Orientation to the field of medical technology. Limited enrollment. Course is Pass-Fail. Prerequisite: Open to sophomore medical technology students only. Permission of the chairman of the Medical Technology Program.
- 2830, 2840. Organic Chemistry for Majors. (3-0-3 each course) 2830-F; 2840-S.** Studies of aliphatic and aromatic compounds, stressing theories and reaction mechanisms. The laboratory work in 2835, 2845 includes qualitative analysis. To be taken concurrently with Chemistry 2835, 2845. Prerequisites: Chemistry 1510 and 1515 or 1720. Credit not granted to

those with credit in Chemistry 2430 and 2440. Primarily for but not restricted to chemistry majors.

- 2835, 2845. Organic Chemistry Laboratory for Majors.** (0-6-2 each course) 2835-F; 2845-S. Corequisite with Chemistry 2830, 2840.
- 3000. Undergraduate Seminar.** (1-0-1) A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For juniors.
- 3100. Practicum in Chemistry.** (0-3-1) Practical experience in preparing and handling chemical materials, supervising a chemical stockroom and assisting in a chemistry laboratory. Prerequisite: Two years of college chemistry. Should be completed prior to student teaching. Enrollment is restricted to chemistry majors.
- 3460. Biochemistry.** (3-3-4) Chemistry of biologically important compounds and an introduction to their roles in living material. Prerequisites: Chemistry 2430 or 2830 and 2835. Chemistry 1720 or 2340 recommended.
- 3910, 3920. Physical Chemistry.** 3910 (4-0-3) F. 3920 (3-0-3) S. To be taken in sequence. A study of the principles governing chemical change. Included are: thermodynamics, kinetics, quantum theory and statistics. Prerequisites: Chemistry 1510. Physics 1360; Mathematics 2352.
- 4000. Undergraduate Seminar.** (1-0-1) A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For seniors. Prerequisite: Chemistry 3000.
- 4400. Independent Study.** (Arr.-Arr.-1 to 6) Laboratory or library problems in which the student works under the supervision of a staff member. A written report is required. Prerequisite: Permission of the instructor and chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Equilibrium and Dynamics Laboratory.** (0-6-2) S. Experimental investigation of the thermodynamic and kinetic behavior of several chemical systems. Prerequisite: Chemistry 3910; Mathematics 2320 is strongly recommended.
- 4770. Molecular Structure Laboratory.** (1-6-3) F. Experimental determination of molecular structure using NMR, mass spectroscopy, UV-Visible and IR spectroscopy. Prerequisite: Chemistry 3920.
- 4780. Instrumental Analysis Laboratory.** (1-3-2) F. Instrument design, operation and application of flame and atomic absorption spectroscopy, chromatography, potentiometry, coulometry and polarography. Prerequisite: Chemistry 3910; or simultaneous enrollment therein.
- 4900. Modern Inorganic Chemistry.** (3-0-3) F. A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. Prerequisite: Chemistry 3910. Chemistry majors enroll concurrently in Chemistry 4905.
- 4905. Modern Inorganic Chemistry Laboratory.** (0-3-1) F. Prerequisite: Chemistry 4900 or simultaneous enrollment therein.
- 4940. Nuclear Chemistry.** (2-3-3) S. Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses. Prerequisite: Two years of chemistry.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5010. History of Chemistry. (2) Su.** The historical development of the science of chemistry is studied with the extensive use of reference materials. Prerequisite: Two years of chemistry.
- 5030. Advanced Methods for the Teaching of Chemistry. (3) Su.** The development of methods emphasizing inquiry through laboratory, demonstration and lesson presentation with self-evaluation by video-tape. Prerequisite: High school chemistry teaching experience or permission of the chairman of the department. May be used for credit toward M.S. in Education degree only.
- 5070. Elements of Physical Chemistry. (3) Su.** A non-calculus course in physical chemistry designed for high school teachers of chemistry and biological science. Prerequisite: At least two years of college chemistry. Credit not granted to those with credit in Chemistry 3910, 3920. May be used for credit toward the M.S. in Education degree only.
- 5100. Basic Chemistry. (5) (Omitted 1974-75).** Fundamental concepts of general chemistry. Prerequisite: For participants in NSF Summer Institute or similarly qualified science teachers.
- 5120. Theoretical Inorganic Chemistry I. (3) F.** Modern theories of chemical bonding, magnetic properties and organometallic chemistry of the transition metals. Prerequisite: Chemistry 3920.
- 5130. Theoretical Inorganic Chemistry II. (2) S.** Descriptive and theoretical aspects of the nontransition elements and their compounds. Prerequisite: Chemistry 3920.
- 5200. Chemical Thermodynamics. (3) F.** A study of the laws governing the passage of energy from one chemical system to another and the transformation of energy from one form to another. Prerequisite: Chemistry 3920.
- 5230. Quantum Chemistry. (3) S.** A study of structure of atoms and molecules as explained by quantum theory. Applications to questions of chemical interest are emphasized. Prerequisite: Chemistry 3920.
- 5250. Special Topics in Physical Chemistry. (2)** May be offered as a course in (1) Electrochemistry, (2) Chemical Kinetics or (3) Group Theory. May be repeated by student if different topic is taught. Prerequisite: Chemistry 3920.
- 5300. Molecular Spectroscopy. (3) S.** A study of the quantum principles, theory and applications of microwave, IR, UV, and NMR spectroscopy. Prerequisite: Chemistry 3920; Chemistry 4770 is desirable.
- 5400. Physical Organic Chemistry. (3) F.** A course covering certain aspects of physical chemistry as related to organic molecules and their reactions. Prerequisites: Chemistry 2840 and 3920.
- 5410. Organic Mechanisms and Synthesis. (3) S.** A study of the mechanisms of reactions and methods of synthesis in organic chemistry. Prerequisite: Chemistry 5400 or permission of the instructor.
- 5430. Special Topics in Organic Chemistry. (2) S.** A study of topics not ordinarily covered in the basic introductory organic chemistry courses. Prerequisites: Chemistry 2840, 3920.
- 5460. Biochemistry. (3)** General biochemistry; basic mechanisms of biological processes; enzyme action; genetic and hormonal control; metabolic cycles. Prerequisite: Chemistry 2840.
- 5890. Research in Chemistry. (3 to 6)** Prerequisite: May be taken only after specific arrangements are made with the student's research advisor and the chairman of the department.
- 5950. Thesis. (3 to 6)**

EARTH SCIENCE (Offered in the Department of Geography and Geology.)

UNDERGRADUATE COURSES

- 1410. Weather and Climate. (3-2-4)** Study of weather and climate, the factors which influence them, and their importance to man; recent developments in meteorology presented.
- 1420. Physical Geography. (2-2-3)** Study of the earth's surface, landforms, water resources, soils, vegetation, economic minerals, and their areal interrelationships. Field trip.
- 2420. Regional Geomorphology. (2-2-3)** Landforms of the United States; work with maps of landforms; consideration to composition, distribution and the processes by which the land is shaped. Field trip.
- 3000. Elementary Earth Science I. (2-2-3)** Earth's motions, processes of land formation, earth's resources. (No credit if Earth Science 1420 or Geology 1400 has been taken.)
- 3010. Geography of the Atmosphere. (2-2-3)** An analysis of the elements and controls of weather and climate. (No credit if Earth Science 1410 has been taken.)

ECONOMICS

UNDERGRADUATE COURSES

- 2801. Principles of Economics I. (3-0-3)** A short introduction followed by a discussion of the causes and cures of inflation and unemployment.
- 2802. Principles of Economics II. (3-0-3)** A study of the determination of individual prices in a market economy and related problems. Prerequisite: Economics 2801.
- 3810. Economics of Natural Resources. (3-0-3)** An introduction to economic analysis of natural resources and the environment. *Note:* May not be counted as part of the 36 semester hour requirement in economics for economics majors.
- 3833. Economic Development of Modern Europe. (3-0-3) (Omitted 1974-75)** A survey of the economic history of Europe with primary emphasis on the period after 1850. Prerequisite: Economics 2802 or permission of the instructor.
- 3835. American Economic Development. (3-0-3)** S. Evolution of the economy with emphasis on basic economic institutions and major forces in the process of growth and development. Prerequisite: Economics 2802.
- 3851. Public Finance. (3-0-3)** S. A study of taxation, government spending, public debt, and the role of government in a market economy. Prerequisite: Economics 2802.
- 3860. International Economics. (3-0-3)** F. Principles of foreign trade and finance; balance of payments; tariffs; quotas and commercial policies of major countries. Prerequisite: Economics 2802 or permission of the instructor.
- 3880. Government and Business. (3-0-3)** S. The market structures in which business operates; public policies for regulation and control of those markets. Prerequisite: Economics 2802 or permission of the instructor.
- 3890. Labor Economics. (3-0-3)** F. Wage theory, history of the labor movement, collective bargaining, labor legislation, and poverty. Prerequisite: Economics 2802 or permission of the instructor.
- 3990. Summer Study in Ireland. (0-0-6)** Su. Independent study in economics. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

- 4505. Business Cycles. (3-0-3) S.** Fluctuations in economic activity and their causes, methods of forecasting, and policies for growth and stability. Prerequisite: Economics 2802.
- 4511. Comparative Economic Systems. (3-0-3) F.** A comparative study of the economic organization, policies, achievements and problems of the systems of capitalism, socialism, and communism. Prerequisite: Economics 2802 or permission of the instructor.
- 4520. History of Economic Thought. (3-0-3) F.** To emphasize various schools of thought including the Classicalists, Socialists, Marxists, Marginalists, Institutionalists, and Keynesians. Prerequisite: Economics 2802.
- 4570. Economic Problems of the Developing Countries. (3-0-3) F.** An analysis of the economic problems of the developing countries and theories of economic development. Prerequisite: Economics 2802 or permission of the instructor.
- 4592. Government and Labor. (3-0-3) (Omitted 1974-75)** Federal and state laws dealing with collective bargaining, strikes, and internal affairs of labor unions are examined in detail. Prerequisite: Economics 3890 or permission of the instructor.
- 4594. Economics of Human Resources. (3-0-3) (Omitted 1974-75)** A survey of the field of human resource development with emphasis on policies for correcting problems of structural unemployment and underemployment. Prerequisite: Economics 2802 or graduate standing and permission of the instructor.
- 4596. Economics of Collective Bargaining. (3-0-3) S.** The subjects of collective bargaining and the resolution of conflict are studied on the theoretical and descriptive levels. Prerequisite: Economics 3890 or permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4801. Intermediate Macroeconomic Theory. (3-0-3) F.** Analysis of the determination of national income, employment, wages, and factors affecting inflation and growth. Prerequisite: Economics 2802.
- 4802. Intermediate Microeconomic Theory. (3-0-3) F.** Analysis of product and factor price theory under alternative market classifications. Prerequisite: Economics 2802.
- 4803. Mathematical Economics. (3-0-3) S.** The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework. Prerequisite: Economics 4802 or permission of the instructor.
- 4813. The Soviet Economy. (3-0-3) S.** A descriptive analysis of the economic structure of the Soviet Union with primary emphasis on the post World War II period. Prerequisite: Economics 2802 or permission of the instructor.
- 4840. Money and Banking. (3-0-3) F.** Money and banking in the modern economy; history and theory of monetary policy. Prerequisite: Economics 2802 or the equivalent.
- 4859. Economics of Public Financial Policy. (3-0-3) F.** The economic implications of government spending, taxing, and borrowing with some emphasis on state and local governments. Not open to majors in economics.
- 4861. International Economic Problems. (3-0-3) (Omitted 1974-75)** Current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism. Prerequisite: Economics 3860 or permission of the instructor.
- 4872. Economic Planning. (3-0-3) (Omitted 1974-75)** A study of development planning by public authorities in market economies as well as command economies. Prerequisite: Economics 4570 or permission of the instructor.
- 4874. Latin American Economic Development. (3-0-3) F.** Economic conditions and develop-

ment problems in various Latin American countries. Prerequisite: Economics 2802 or permission of the instructor.

- 4876. Middle East Economic Development. (3-0-3) (Omitted 1974-75)** A survey of the economic conditions and problems in the Middle East as a whole and in specific countries. Prerequisite: Economics 2802 or permission of the instructor.
- 4950. Independent Study. (Arr.-Arr.-2 to 3)** Independent study in economics. Designed for the individual student needs at either the undergraduate or graduate level. Prerequisite: Economics 2802 and pre-registration conference with the chairman of the department.
- 4991. Statistics Applied to Economics I. (3-0-3) F.** Measures of central tendency and dispersion, statistical distributions, regression, and hypothesis testing with applications to economics. Prerequisite: Economics 2802 or permission of the instructor. No credit toward graduation for a student with credit in another introductory statistics course.
- 4992. Statistics Applied to Economics II. (3-0-3) (Omitted 1974-75)** Nonparametric statistics, chi-square and F distributions, index numbers, and time series with application to economics. Prerequisite: Economics 4991 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5801. Advanced Macroeconomic Theory. (3) S.** Advanced analysis of determination of income, employment, investment, and wages; inquiry into the nature of equilibrium and equilibrating process. Prerequisite: Economics 4801 or permission of the instructor.
- 5802. Advanced Microeconomic Theory. (3) S.** A development of value and distribution theories. Detailed analysis of the reactions of consuming and producing units. Prerequisite: Economics 4802 or permission of the instructor.
- 5821. Seminar in Recent History of Economic Thought. (3) F.** A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1900. Prerequisite: Economics 4520 and/or permission of the instructor.
- 5841. Seminar in Monetary Theory. (3) F.** Critical inquiry into the nature of the demand for money and the effect of monetary policy on national income and employment. Prerequisite: Economics 4840 or equivalent.
- 5843. Seminar in Financial Institutions. (3) S.** The functioning of major private and public financial institutions. Prerequisite: Economics 4840 or the equivalent.
- 5851. Seminar in Public Finance. (3) S.** A study of the relationship between the public sector and the rest of the economy. Prerequisites: Economics 4801 and 4802.
- 5861. Seminar in International Economics. (3) F.** A study of the pure and monetary theories of international economics. Prerequisite: Economics 3860 or permission of the instructor.
- 5871. Seminar in Economic Development. (3) S.** A study of the theories and institutions of development and underdevelopment. Prerequisite: Economics 4570 or permission of the instructor.
- 5881. Seminar in Public Control of Industry. (3) F.** Selected problems of economic policy arising from the interrelations of government and business with emphasis on maintaining competitive enterprise. Prerequisite: Economics 3880 and/or permission of the instructor.
- 5891. Problems in Labor Economics. (3) F.** The theory of wages and employment; the applica-

tions of the theory to contemporary problems. Prerequisite: Economics 3890 and/or permission of the instructor.

- 5893. Economics of Manpower Resources. (3) (Omitted 1974-75)** A study of current problems in the areas of manpower development and utilization. Prerequisite: Economics 3890 and/or permission of the instructor.
- 5900. Research Methods. (2) F.** The formation of concepts, hypotheses, theories and research problems; the selection of research method; error in economic data.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

EDUCATIONAL ADMINISTRATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4810. School Law. (3-0-3)** A course designed to develop an understanding of the basic legal factors related to the school.
- 4820. School-Community Relations. (2-0-2) F, Su.** Procedures and practices in developing a good school-community relations program.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5490. Special Educational Problems. (1-3)** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the instructor.
- 5600. Introduction to Organization and Administration. (4)** Educational administration in social and historical perspective; authentication and application of principles of administration. Prerequisite: Eight semester hours in education and psychology.
- 5630. Administration and Supervision of the Elementary School. (4) S, Su.** Develops interrelationship of pupils, staff and patrons in the elementary school. Prerequisite: Permission of the chairman of the department.
- 5640. Administration and Supervision of the Secondary School. (4) S.** Develops an understanding of the role of the principal of the secondary school.
- 5700. Supervision of Instruction. (3)** Origin and development of the supervisory function. Prerequisite: Educational Foundation 5500.

- 5850. School Plant Planning. (2) S, Su.** Relates school plants to the instructional program and community resources. Prerequisite: Educational Administration 5600 or equivalent.
- 5860. School Finance. (3) F, Su.** A study of the support of public school and the expenditures of school funds. Prerequisite: Educational Administration 5600 or equivalent.
- 5870. Personnel Administration. Teacher-Administrator Relationships. (3) F, Su.** Principles and practices of personnel administration in educational institutions. Prerequisite: Educational Administration 5600 or equivalent.
- 5880. School Business Administration. (2) S.** A study of the principles of financial management as they relate to the administration of funds in public education at the local level. Prerequisite: Educational Administration 5860 or equivalent.
- 5900. Introduction to Research in Education. (2)** Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.
- 5910, 5920. Internship in Administration. (3 each course)** Prerequisite: Permission of the chairman of the department.
- 5950. Thesis (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
- 6200. Curriculum in Higher Education. (2) S.** A unified study of college and university curricula.
- 6210. The Junior College Movement. (2) Su.** The junior college in the United States with attention to problems of philosophy, curriculum, and operation of junior colleges in Illinois. Prerequisite: Eight semester hours in education and psychology or permission of the instructor.
- 6600. Problems in School Administration. (2 or 4) F, Su.** An advanced seminar in problems of significance to educational administration. Prerequisites: At least eight semester hours in administration and supervision plus completion of Group I courses.
- 6650. The Superintendent of Schools. (4)** The superintendent of schools: leadership roles, dimensions of the administrative process, and functional areas in administration. Prerequisites: A "master's" degree in Educational Administration, experience as an educational administrator, or approval of the chairman of the department.
- 6660. Administration in Higher Education. (3) S.** A study of the scope, nature, and function of administration in higher education. Prerequisites: Equivalent of the master's degree and/or permission of the chairman of the department.
- 6700. Seminar in Instructional Supervision. (2) On demand.** A course designed for the specialist who will have direct or general responsibility for the supervision of the instructional program or a selected segment of it. Provides experience in actual supervisory program development. Prerequisites: Educational Administration 5700 or equivalent, employment as a supervisor or permission of the instructor.
- 6810. Seminar: School Operations and the Law. (2) On demand.** A course designed to advance the school administrator's understanding of the major legal factors which impinge upon his functions. Emphasis is upon current trends as revealed in recent case law and new legislation. Prerequisites: Educational Administration 4810 or equivalent or permission of the chairman of the department.
- 6820. Seminar: Interdisciplinary Approach to Educational Administration. (2) On demand.** Examines the contributions of the behavioral science and the humanities to the study and

practice of educational administration. Provides an opportunity to integrate material derived from related area courses. Prerequisites: Admission to Ed.S. program and completion of at least eight semester hours in related academic disciplines. Permission of the instructor.

- 6900. Seminar: Theory and Research in Educational Administration. (2)** Development of theories of administration in general and of educational administration in particular. Prerequisites: Educational Administration 5900 and 5600 or equivalent, and permission of the chairman of the department.
- 6910. Field Experience in Administration. (4) F, S.** The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.
- 6920. Field Experience in Administration. (4) F, S.** The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.
- 6920. Field Experience in Administration. (4) F, S.** The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.

EDUCATIONAL FOUNDATION

UNDERGRADUATE COURSES

- 4450. Philosophy and History of Education. (3-0-3)** The philosophical and historical foundations of leading educational theories as they treat human nature, objectives, and processes of education.
- 4640. History of Education in the United States. (2-0-2) S.** Development of education as a part of national growth and the historical roots of some educational issues.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5500. Curriculum Development. (3)** Basic determinants of curriculum; factors influencing curricular design; current trends, including experimental programs and practices. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
- 5510. Social Foundations of Education. (3)** The school in society; effects of cultural patterns, social classes, community organizations, and some social problems. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
- 5530. Philosophy of Education. (2) F, Su.** A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
- 5540. History of Educational Thought. (2) S, Su.** Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
- 5550. Comparative Education. (3) On demand.** Selected educational systems of developed and emerging nations in their cultural settings.

EDUCATIONAL GUIDANCE

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4900. Principles and Techniques of Guidance. (3-0-3)** An introductory course, principles and purposes underlying guidance activities. Prerequisite: Eight semester hours in education and psychology. Required of students in family services curriculum.
- 4910. Guidance in the Elementary School. (3-0-3)** A study of principles and techniques of guidance services in the elementary school. Prerequisite: Eight semester hours in education and psychology.
- 4920. Residence Hall Personnel Work. (3-0-3)** S. A study of the functions, management, and supervision of university residence halls including administrative, business, counseling, and teaching duties. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5050. Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5090. Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5490. Special Educational Problems. (1-3)** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the instructor. May be repeated for a total of six semester hours credit.
- 5720. Measurement Applied to Guidance. (3)** A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques used in guidance programs. Prerequisite: Eight semester hours in education and psychology.

- 5730. Play Therapy.** (3) S, Su. The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment. Prerequisite: Permission of the chairman of the department.
- 5760. Student Personnel Work in Higher Education.** (3) F. A study of personnel functions in higher education including admissions, discipline, student activities, housing, scholarship programs. Prerequisite: Eight semester hours in education and psychology.
- 5880. Practicum in Student Personnel Work in Higher Education.** (3) S. Supervised practice in student personnel work according to the student's background and preferences. Prerequisites: Educational Guidance 5760 and permission of the chairman of the department.
- 5881. Practicum in Student Personnel Work in Higher Education.** (3) S. Supervised practice in student personnel work according to the student's background and preferences. Prerequisites: Educational Guidance 5760 and permission of the chairman of the department.
- 5890. Current Practices and Problems in Counseling.** (4) A course in theory and practices of counseling with emphasis upon the duties of the school counselor. Prerequisite: Educational Guidance 4900 or 4910.
- 5910. Organization and Administration of Guidance and Personnel Services.** (3) S, Su. Principles and practices in organization and administration of guidance programs, public relations, integration of guidance services and curriculum. Prerequisite: Educational Guidance 4900 or 4910.
- 5920. Occupational, Educational, Personal, and Social Information.** (3) F, Su. Sources, evaluation, and use of occupational, educational, personal, and social information. Job requirements and training facilities. Prerequisite: Educational Guidance 4900 or 4910.
- 5930. Counseling Practicum.** (4) Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest. Prerequisites: Educational Guidance 5890 and permission of the chairman of the department.
- 5940. Principles and Techniques of Group Guidance.** (2) F. A study of the principles and their application in the area of group guidance. Prerequisite: Educational Guidance 4900 or 4910.
- 5950. Thesis and Research.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisite: Permission of the chairman of the department.
- 5990. Independent Study.** (1 to 6) Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
- 6880. Seminar in Guidance.** (3) S, Su. Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field. Prerequisite: Permission of the chairman of the department.
- 6900. Field Study in Guidance.** (3) F. Supervised experience in all services normally considered a part of the guidance program. Prerequisite: Educational Guidance 5930 and permission of the chairman of the department.
- 6910. Field Study in Guidance.** (3) F. Supervised experience in all services normally considered a part of the guidance program. Prerequisites: Educational Guidance 5930 and permission of the chairman of the department.
- 6941. Principles of Group Counseling.** (2) S. A study of the principles and their application in the area of group counseling including techniques of group discussion, sociometrics, and role-playing. Prerequisite: Educational Guidance 5890.

EDUCATIONAL PSYCHOLOGY

UNDERGRADUATE COURSES

- 3320. Educational Psychology and the Instructional Task in Secondary School. (5-0-5)** Individual growth and development, motivation, learning theory, appraisal of human differences. General methods, planning, instructional materials, classroom management, student evaluation, innovative practices, and professionalism. Prerequisite: Psychology 2310, junior standing. Team teaching with Secondary Education. A student may take the course for credit in only one of the departments.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

- 4770. Facilitating Interpersonal Relationships. (3-0-3) F.** A course to develop skills in interpersonal relationships and personal understanding.
- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4990 (Ed. Guid. 5430). Measurement and Evaluation. (3)** Nature and use of standardized and teacher-made tests. Selection, administration, and use. Prerequisites: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5400. Advanced Educational Psychology. (3) F, Su.** Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices. Prerequisite: Eight semester hours in education and psychology.
- 5520. Understanding the Individual. (3)** Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality. Prerequisite: Eight semester hours in education and psychology. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
- 5700. Psycho-Social Development in Childhood. (3) S.** A discussion of psychological and cultural forces which shape the behavior patterns of the growing child. Prerequisite: Eight semester hours in education and psychology.
- 5710. Psycho-Social Development of the Adolescent and Young Adult. (3) F.** A discussion of psychological and cultural forces which shape the behavior patterns of the maturing individual. Prerequisite: Eight semester hours in education and psychology.

- 5740. Personality Dynamics. (3)** A study of the nature of personality and of various theories of personality. Prerequisite: Eight semester hours of education and psychology.
- 5900. Introduction to Research in Educational Psychology and Guidance. (2)** F, Su. Gives experiences in defining problems and in using standardized research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.
- 6440. Educational Statistics. (3)** S, Su. Fundamentals of statistics and their application. Prerequisite: Eight semester hours in education and psychology.
- 6780. Theories of Aptitudes and Abilities. (3)** Su. A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior. Prerequisite: Educational Guidance 5920 or permission of the chairman of the department.

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

- 0990. Reading and Study Improvement for University Students. (0-2-0)** Basic reading instruction designed to improve rate, comprehension, and general study habits for university students.
- 1230. Laboratory in Elementary Education. (2-1-2)** F, S. A laboratory course emphasizing directed observations and participation in classrooms with children of pre-school through junior high school ages. Required of freshmen and lower division transfer students in the elementary and junior high school education curricula.
- 2320. Human Growth, Development, and Learning. (3-0-3)** Physical, social, emotional, and intellectual growth and development of children and early adolescents. Prerequisite: Psychology 2310.
- 3240. Directing Learning in the Elementary School. (3-1-3)** Organization of instructional programs; planning learning experiences, evaluation, guidance, and classroom management; use of instructional media equipment. Prerequisite to student teaching. Prerequisites: Junior standing. Restricted to elementary and speech pathology and audiology majors.
- 3260. Child Development for the Nursery-Kindergarten Teacher. (3-0-3)** Factors influencing development of children 3½ to 8. Some child study techniques and their application. Prerequisites: Junior standing.
- 3270. Teaching Social Studies and Language Arts in the Elementary School. (3-1-3)** Objectives, techniques, and materials of social studies and language arts, excluding reading and children's literature; instruction in handwriting. Prerequisites: Elementary Education 3240 and simultaneous enrollment with Elementary Education 3280.
- 3280. Developmental Reading in the Elementary School. (3-1-3)** Objectives, techniques, and materials of the basal reading program from kindergarten through junior high school; current trends in reading instruction. Prerequisites: Elementary Education 3240 and simultaneous enrollment with Elementary Education 3270.
- 3290. Science in the Elementary School. (2-2-3)** Selection and development of units, demonstrations, and laboratory work. Prerequisites: Six semester hours in science; Elementary Education 3240.
- 4260. Kindergarten Education. (2-2-3)** Programs, materials, and equipment for nursery school and kindergarten. Prerequisite to teaching practicum in kindergarten. Prerequisites: Restricted to majors in elementary education or enrollment in the Home Economics Child Development Option.

- 4690. Material and Activities in Elementary Science. (3-0-3) S.** Selection, construction, application of materials for science teaching, and in-dept study of methods of science teaching. Prerequisite: Student teaching or teaching experience at the elementary level; Elementary Education 3290 or permission of the chairman of the department.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Education in the Inner City School. (3-0-3) S, Su.** A course in methods, materials, characteristics and values basic to the teaching of students who attend the inner city school. Prerequisite: Eight semester hours in education and psychology, or permission of the chairman of the department.
- 4760. Gifted and Creative Students. (3-0-3) S, Su.** A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.
- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5260. Advanced Developmental Reading. (3)** A study of the nature of reading instruction in the elementary school; approaches, goals, materials, techniques, and evaluation procedures. Prerequisite: Elementary Education 3280 or equivalent.
- 5490. Special Educational Problems. (1-3) On demand.** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of chairman of the department. May be repeated for a total of six semester hours credit.
- 5560. Problems in the Teaching of Reading. (3) Su, F.** A study of the types and causes of reading difficulty; methods of diagnosis and remediation for teachers, clinicians, and supervisors. Prerequisite: Eight semester hours in education and psychology, including Elementary Education 3280 or equivalent.
- 5570. Early Childhood Education. (3) F.** Consideration given to each segment of the learning continuum (ages $3\frac{1}{2}$ to 8) including curriculum design, articulation, evaluation, and administration. Prerequisite: Eight semester hours in education and psychology.
- 5580. Child Study for the Elementary School Teacher. (3) S, Su.** Factors influencing behavior of the elementary school child. Techniques to secure and use data to improve classroom teaching. Prerequisites: Elementary Education 2320 or equivalent. Eight semester hours in education and child psychology.
- 5590. Seminar in Nursery-Kindergarten Education. (3) Su.** An analysis of curriculum issues and problems in nursery-kindergarten education. Students will select individual problems to study.

- 5620. Remedial Reading Practicum. (3)** Supervised practice in diagnosing, treating, and reporting on cases of reading disability. Prerequisites: Elementary Education 5560 or equivalent. Students may enroll a second time for credit.
- 5630. Supervision and Curriculum in Reading. (2) S, Su.** A study of the total school program for reading instruction; and analysis of the role of the reading supervisor or consultant. Prerequisite: Six semester hours in reading instruction.
- 5640. Teaching and Supervision of Social Studies in Elementary Schools. (3)** A study of the objectives, content, materials, and techniques used in organizing, supervising, and improving the social studies program.
- 5650. Language Arts in the Elementary School. (3) F, Su.** A critical analysis of language arts instruction with emphasis on the organization of the program, content, materials, and procedures. Prerequisite: Eight semester hours in education and psychology.
- 5660. Science Curriculum in the Elementary School. (3) F, Su.** Scope and sequence of the elementary science curriculum; new experimental curricula; selection of materials and equipment. Prerequisites: Six semester hours of science; Elementary Education 3290 or permission of the chairman of the department.
- 5670. Advanced Laboratory in Elementary Education. (3) Su.** A study of curriculum problems, trends, and developments using observations and demonstrations and analysis of instructional media and pertinent research. Prerequisite: Six semester hours in graduate courses in elementary education. Students may enroll a second time for credit.
- 5680. Guiding Student Teaching. (3) Su.** Aspects of teacher education, particularly professional laboratory experiences.
- 5690. Seminar in Elementary Science Education. (3) Su.** An analysis of problems and trends in elementary and junior high science education. Student selection of problems with approval of the instructor. Prerequisite: Elementary Education 5660 or permission of the chairman of the department.
- 5900. Introduction to Research in Elementary Education. (2) On demand.** Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.
- 5950. Thesis. (3 to 6) On demand. Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

ENGLISH

Note: A student who enters the University with a deficiency in the basic skills in English — reading, writing, spelling, elements of grammar and good usage — may be required to take work in remedial English in addition to the required freshman composition courses.

Note: Courses in English are grouped for curriculum selection as follows (and the Groups are further indicated by numbers at the end of the course description):

- 1) Required Courses: 2601, 4300
- 2) Linguistics: 2901, 3901, 4901, 4902
- 3) Composition: 2003, 3001, 3003
- 4) Literary Criticism: 2205, 3205, 3206
- 5) Comparative Literature: 2602, 2603, 2607, 2608, 2609, 3504, 3600, 3607, 3608
- 6) Medieval Period: 2801*, 4801, 4802
- 7) Renaissance: 2801*, 3205, 3801, 3802, 4803, 4804
- 8) Neo-Classical: 2801*, 2805, 3205, 4805, 4806
- 9) Nineteenth Century: 2602, 2701*, 2702*, 2802*, 2805, 2806, 3206, 3701, 3702, 3805, 3806, 4707

- 10) Twentieth Century: 2602, 2608, 2609, 2702*, 2705, 2802*, 2806, 3206, 3504, 3607, 3608, 3703, 3808
- 11) Drama: 2607, 2608, 3607, 3608, 3801, 3802
- 12) American Literature: 2701*, 2702*, 2705, 3700, 3701, 3702, 3703, 4705, 4707
- *May be used for one group only.

UNDERGRADUATE COURSES

- 1001. Composition. (3-0-3)** A basic course in theme writing, designed to develop facility in matters of sentence structure, paragraph development, and organization.
- 1002. Types of Literature. (3-0-3)** An introduction to the major genres (poetry, fiction, drama). Frequent analytical papers required. Prerequisite: English 1001. Students may not enroll in English courses numbered above 1002 until they have completed English 1002, or, in the case of transfer students, until they have satisfied the all-university English requirement.
- 2003. Introduction to Creative Writing. (3-0-3)** Su, F. Practice in writing poems, short stories, or plays. Class discussion of the student's writing. (Group 3)
- 2205. Introduction to Literary Criticism. (3-0-3)** F. Terminology and procedures of literary criticism, with attention to critical approaches such as social, formalist, psychological, and archetypal. (4)
- 2601. Backgrounds of Western Literature. (4-0-4)** A reading of major world masterpieces through the Renaissance, works that lie behind literature in English, by such writers as Homer, Sophocles, Plato, Virgil, Dante, Rabelais, Montaigne, Cervantes. Required of English majors, open to others. (1)
- 2602. World Literature since the Renaissance. (3-0-3)** S. Emphasis on generally recognized masters, such as Goethe, Voltaire, Flaubert, Dostoevsky, Tolstoy, Gide, Mann, Kafka, Camus. (5, 9, 10)
- 2603. Mythology. (3-0-3)** The myths, chiefly Greek and Roman, most often retold, interpreted, or alluded to by the writers and literary critics of Western Europe and America. (5)
- 2607. World Drama before Ibsen. (3-0-3) (Omitted 1974-75)** Representative dramatists, such as Aeschylus, Sophocles, Euripides, Aristophanes, Marlowe, Moliere, Racine, Goethe, Schiller. (5, 11)
- 2608. World Drama from Ibsen. (3-0-3)** S. Representative dramatists, such as Ibsen, Chekhov, Strindberg, Shaw, O'Neill, Williams, Miller, Wilder, Beckett, Genet, Pinter. (5, 10, 11)
- 2609. Modern World Fiction. (3-0-3)** S. Major novelists, such as Conrad, Joyce, Lawrence, Ellison, Faulkner, Hemingway, Steinbeck, Mann, Kafka, Proust. (5, 10)
- 2701. American Literature I. (3-0-3)** Su, F. From Colonial times through the American Renaissance, with emphasis usually on Taylor, Hawthorne, Poe, Emerson, Thoreau, Whitman, Melville. (9, 12: use for one group only)
- 2702. American Literature II. (3-0-3)** S. From the close of the American Renaissance to the present, with emphasis usually on Dickinson, Mark Twain, James, Robinson, Frost, Eliot, Faulkner, Hemingway. (9, 10, 12: use for one group only)
- 2705. Black Literature. (3-0-3)** F. The major writers of Black American literature, with emphasis on such authors as Toomer, Hughes, Brooks, Wright, Ellison, Baldwin, Hansberry, Jones. (10, 12)
- 2801. English Literature I. (3-0-3)** Su, F. Selected prose and poetry (excluding the novel) from Beowulf to Sheridan. (6, 7, 8: use for one group only)
- 2802. English Literature II. (3-0-3)** S. Selected prose and poetry (excluding the novel) from Burns to the present. (9, 10: use for one group only)

- 2805. English Novel I. (3-0-3) F.** Richardson, Fielding, Austen, Scott, Thackeray, Dickens, and others. (8, 9)
- 2806. English Novel II. (3-0-3) S.** George Eliot, the Brontes, Meredith, Hardy, Conrad, Joyce, Lawrence, and others. (9, 10)
- 2901. Linguistic Analysis of Modern English. (3-0-3)** Introduction to the syntactic, semantic, and phonological components of Modern English, within the framework of generative-transformational grammar. (2)
- 3001. Advanced Rhetoric. (3-0-3) Su, S.** Advanced application of the principles of expository writing. Attention to development of an individual style. (3)
- 3003. Advanced Creative Writing. (3-0-3) S.** Experience in writing poems, short stories, plays. Prerequisite: English 2003 or permission of the instructor. May be taken twice with permission of the chairman of the department and Dean, College of Arts and Sciences. (3)
- 3205. Literary Criticism I. (3-0-3) Su, F.** Selected critics from Plato to Johnson. (4, 7, 8)
- 3206. Literary Criticism II. (3-0-3) S.** Selected critics from Coleridge to the present. (4, 9, 10)
- 3400. Methods of Teaching English in the High School. (3-0-3)** Problems, materials, and methods for teaching English in the high school. (No group)
- 3405. Literature in the Grades. (3-0-3)** Emphasizes wide acquaintance with the great bodies of world literature, myth, legend, etc., and with the best poetry for children. Enrollment restricted to students in the elementary education curriculum. (No group)
- 3564. Film and Literature. (2-2-3)** Relationships between film and literature in the Twentieth Century. (5, 10)
- 3505. Literary Criticism and the Film. (2-2-3) F.** Basic questions of film theory – aesthetics and literary criticism. (5, 11)
- 3600. The Bible as Literature. (3-0-3)** Types of literature in the Old and New Testaments. (5)
- 3602. Studies in Major Poets. (3-0-3)** Studies in depth of British, American, and world poets, with no more than three poets examined during any one semester. Topics for 1974-75: Fall – Chaucer, Shakespeare, Milton (6, 7); Spring – Shelley, Byron, Blake (9). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
- 3603. Studies in Major Novelists. (3-0-3)** Studies in depth of British, American and world novelists, with no more than three novelists examined in any one semester. Topics for 1974-75: Fall – Hardy, Forster, Lawrence (10); Spring – Barth and Vonnegut (10, 12). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
- 3604 (4600). Special Topics in Literature. (3-0-3) F, S.** Special topics in British, American, or world literature not ordinarily treated in standard courses. Topics for 1974-75: Fall – the Black in Faulkner (10, 12); Spring – Greek and Roman Drama (5, 11). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
- 3607. Theory and Practice of Modern Drama I. (2-2-3) F.** Ibsen, Shaw, Chekhov, Strindberg, O'Neill, Miller. Taught jointly by the Departments of English and Theatre Arts. Literary analysis, acting, and directing. (5, 10, 11)
- 3608. Theory and Practice of Modern Drama II. (2-2-3) S.** Williams, Wilder, Beckett, Ionesco, Genet, Pinter, Albee. (5, 10, 11)
- 3700. Colonial American Literature. (3-0-3) Su.** From the beginning through the Revolutionary period. (12)

- 3701. American Fiction to 1900. (3-0-3) (Omitted 1974-75)** Novels and short stories of Hawthorne, Melville, Poe, Cooper, Mark Twain, James, Crane, and others. (9, 12)
- 3702. American Poetry, 1800-1900. (3-0-3) (Omitted 1974-75)** Major trends in Nineteenth-Century American Poetry, with primary attention to Emerson, Poe, Whitman, Melville, Dickinson. (9, 12)
- 3703. Twentieth Century American Literature. (3-0-3) S.** Representative works, with primary attention to such figures as Dreiser, Robinson, Frost, Eliot, Faulkner, Hemingway, Steinbeck, Stevens. (10, 12)
- 3801. Shakespeare I. (3-0-3) Su, F.** Study of representative comedies and histories. (7, 11)
- 3802. Shakespeare II. (3-0-3) S.** Study of representative tragedies and romances. (7, 11)
- 3805. Romantic Literature. (3-0-3) F.** Precursors of English Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats, Hazlitt, Lamb. (9)
- 3806. Victorian Literature. (3-0-3) S.** Representative works, with primary attention to such writers as Carlyle, Tennyson, Browning, Arnold, Newman, Mill, Ruskin. (9)
- 3808. Twentieth Century British Literature. (3-0-3) Su, F.** Representative works (excluding the novel), with primary attention to such figures as Conrad, Eliot, Joyce, Lawrence, Yeats, Thomas. (10)
- 3901. Theoretical and Applied Linguistics. (3-0-3) Su, S.** Study of the nature of language and linguistic theories, and the application of linguistics to literary studies, composition, and other areas. Prerequisite: English 2901. (2)
- 3990. Summer Study in Ireland. (Arr.-Arr.-6)** Independent research in English. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors. (Group varies according to topic)
- 4300. Senior Seminar. (4-0-4) F, S.** Major topics in English, American, and comparative literature and language, with topics varying each semester. Topics for 1974-75: Fall – Metaphor; Spring – Satire. Required of and limited to English majors. (1)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Studies in Black Literature. (3-0-3) S.** Study in depth of various genres, movements, periods, and major writers in black literature. Only one genre, movement, or period or only two or three major writers will be studied during any semester. Topic for Spring 1975: Issues in the criticism of Black Literature. (10, 12). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.
- 4770. The Transcendental Movement. (3-0-3) F.** The New England Transcendental movement, with emphasis on Emerson and Thoreau. (9, 12)
- 4801. Middle English Literature. (3-0-3) (Omitted 1974-75)** Representative non-Chaucerian English literature of the Middle Ages, in translation. (6)
- 4802. Chaucer. (3-0-3) S.** *Canterbury Tales* and other representative works. Study of the dialect out of which modern English grew. (6)
- 4803. Renaissance Literature. (3-0-3) F.** Selected Sixteenth Century works (excluding the drama), with primary attention to such writers as More, Lyly, Sidney, Spencer, Marlowe, Shakespeare, Raleigh, Campion. (7)
- 4804. Seventeenth Century English Literature. (3-0-3) Su.** Selected works, with primary attention to such figures as Donne, Jonson, Herrick, Herbert, Marvell, Bacon, Browne, Milton. (7)

- 4805. Restoration and Early Eighteenth Century English Literature. (3-0-3) (Omitted 1974-75)** Selected works, with primary attention to such writers as Dryden, Bunyan, Swift, Addison, Steele, Defoe, Pope. (8)
- 4806. Later Eighteenth Century English Literature. (3-0-3) (Omitted 1974-75)** Selected works, with primary attention to such figures as Johnson, Boswell, Goldsmith, Cowper, Gray. (8)
- 4901. History of the English Language. (3-0-3) Su.** Historical geographic, and social dialects of English. (2)
- 4902. Generative and Transformational Grammar. (3-0-3) S.** Analysis of problems in syntax, semantics, and phonology according to the standard theory and current variations of that theory. Prerequisite: English 3901. (2)
- 4905. Methods of Teaching Children's Literature. (3-0-3) S.** For elementary education and English majors, designed to increase their knowledge of children's literature and to suggest methods for teaching literature in grades one through six. (No group)

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5000. Studies in Old English. (4) F.** An introduction to the language and/or literature of Old English. The study of Beowulf and other important works of Old English literature. The topic will vary from semester to semester. Topic for Fall 1974: Beowulf.
- 5001. Studies in Medieval Literature. (4) S.** A study in depth of representative non-Chaucerian literature of the English Middle Ages. The course may concern itself with genres — the drama, the romance, the ballad — or with figures: the Gawain poet, William Langland, John Gower, John Lydgate, Robert Henryson. Topic for Spring 1975: Arthurian Literature.
- 5002. Studies in Renaissance Literature. (4) Su.** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Summer 1974: Shakespeare.
- 5003. Studies in Seventeenth Century British Literature. (4) (Omitted 1974-75)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5004. Studies in Restoration and Eighteenth Century British Literature. (4) F.** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: Pope.
- 5005. Studies in Nineteenth Century British Literature. (4) F.** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: Expository Prose.
- 5006. Studies in Twentieth Century British Literature. (4) S.** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Spring 1975: Major Figures.
- 5007. Studies in Literary Criticism. (4) (Omitted 1974-75)** An extensive study of the basic principles of evaluating the standard literary forms — epic, dramatic, lyrical, and prose narrative. The topic may vary from semester to semester.
- 5008. Studies in Colonial American Literature. (4) F.** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: Science vs. Religion.

- 5009. Studies in Nineteenth Century American Literature. (4) Su, S.** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topics for 1974-75: Summer — Dickinson; Spring — Hawthorne and Melville.
- 5010. Studies in Twentieth Century American Literature. (4) F.** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1974: American Humorists.
- 5011. Studies in Linguistics. (4) (Omitted 1974-75)** Areas of concentration to be chosen from syntax, semantics, phonology, stylistics, psycho-linguistics, historical linguistics, dialectal linguistics, or comparative linguistics. The topic will vary from semester to semester.
- 5060. Studies in European Backgrounds of British and American Literature. (4) (Omitted 1974-75)** A study of the aesthetic, literary, philosophical, social, and religious European background of British and American literature.
- 5061. Special Topics in British and/or American Language and Literature. (4) Su, S.** Special topics in British or American literature not ordinarily treated in standard courses. The topic will vary from semester to semester. Topics for 1974-75: Summer — Contemporary Women Poets; Spring — The Black in Faulkner.
- 5950. Thesis. (3 to 6)** Enrollment for more than three semester hours requires permission of the chairman of the department and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Advanced study of a topic selected by the student, subject to the approval of his advisor. Enrollment for more than three semester hours requires permission of the chairman of the department and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

FOREIGN LANGUAGES

Modern languages courses are conducted in the target language. Majors are encouraged to spend up to two semesters abroad after their sophomore year. Credit from approved study abroad programs will be accepted. Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I	II	III
Number of high school units in the language	Course in (or beyond) which the student may enroll for college credit	Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
0-1 year	French 1101 German 1101 Latin 1101 Russian 1101 Spanish 1101	French 1102 German 1102 Latin 1102 Russian 1102 Spanish 1102
2 years	French 1102 German 1102 Latin 1102 Russian 1102 Spanish 1102	French 2201 German 2201 Latin 2201 Russian 2201 Spanish 2201

3 years	French 2201	French 2202
	German 2201	German 2202
	Latin 2201	Latin 2202
	Russian 2201	Russian 2202
	Spanish 2201	Spanish 2202
4 years	French 2202	
	German 2202	
	Latin 2202	a course numbered
	Russian 2202	above 3000
	Spanish 2202	

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

Note: A student wishing to count foreign language as a humanities requirement is referred to the statement under General Education Requirements.

FOREIGN LANGUAGE — CLASSICS

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

- 4750. Greek Literature in English Translation. (3-0-3) Su, F.** A survey course devoted to the masterpieces of Greek literature from Homer to Demosthenes.
- 4760. Latin Literature in English Translation. (3-0-3) Su, S.** A survey course devoted to the masterpieces of Latin literature from Plautus to Suetonius.

FOREIGN LANGUAGE — FRENCH

UNDERGRADUATE COURSES

- 1001. Conversational French for Beginners. (2-0-2) F.** Pass-Fail only. Introduction to understanding and speaking everyday French. Not open to majors and minors in French.
- 1101, 1102. Elementary French. (4-0-4 each course)** Emphasis on grammar, phonetics, reading, conversation; extensive use of language laboratory. Prerequisite: For French 1102, French 1101.
- 2201, 2202. Intermediate French. (4-0-4 each course)** Review of grammar; exercise in composition and conversation; readings; extensive use of language laboratory. Prerequisite: For French 2201, French 1102 or two years of high school French; for French 2202, French 2201 or permission of the chairman of the department.
- 3300 (3302). French Phonetics. (3-0-3) F.** Systematic drills used to increase the student's knowledge of the phonological structure of French and to eliminate errors caused by the interference of the student's native English. Prerequisite: French 2202 or permission of the chairman of the department.
- 3301. French Conversation. (3-0-3) S.** Consolidation of grammatical and phonological principles through their application in oral expositions. Prerequisite: French 2202 or permission of the chairman of the department.
- 3304. French Civilization. (3-0-3) S.** Prerequisite: French 2202 or permission of the chairman of the department.

- 3305. French Literature I. (3-0-3) F.** Survey of French literature from the Middle Ages to the Eighteenth Century. Prerequisite: French 2202 or permission of the chairman of the department.
- 3306. French Literature II. (3-0-3) S.** Survey of French literature from the Eighteenth Century to the present. Prerequisite: French 2202 or permission of the chairman of the department.
- 3400. Methods of Teaching French. (3-0-3).**
- 4401. French Novel I. (3-0-3) (Omitted 1974-75).** Selected novels from Mme. de La Fayette to Balzac. Prerequisite: Three years of college French or permission of the chairman of the department.
- 4402. French Novel II. (3-0-3) (Omitted 1974-75).** Selected novels from Stendhal to the present. Prerequisite: Three years of college French or permission of the chairman of the department.
- 4403. French Advanced Grammar. (3-0-3) Su.** Prerequisite: French 3301 or permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. French Drama I. (3-0-3) F.** French drama of the Seventeenth Century.
- 4760. French Drama II. (3-0-3) S.** French drama of the Eighteenth and Nineteenth Centuries.
- 4770. French Poetry. (3-0-3) S.**
- 4810. French Advanced Phonetics and Diction. (3-0-3) Su.**
- 4820. French Stylistics. (3-0-3) F.**

FOREIGN LANGUAGE — GERMAN

UNDERGRADUATE COURSES

- 1001. Conversational German for Beginners. (2-0-2) F.** Pass-Fail only. Introduction to understanding and speaking everyday German. Not open to German majors and minors.
- 1101, 1102. Elementary German. (4-0-4 each course)** Emphasis on conversation, grammar, reading; extensive use of language laboratory. Prerequisite: For German 1102, German 1101.
- 2201, 2202. Intermediate German. (4-0-4 each course)** Review of grammar; exercises in conversation and composition; reading of selected material; extensive use of language laboratory. Prerequisite: For German 2201, German 1102 or two years of high school German; for German 2202, German 2201 or permission of the chairman of the department.
- 3301. German Composition and Conversation. (3-0-3) S.** Training in writing, diction, and pronunciation. Prerequisite: German 2202 or permission of the chairman of the department.
- 3302. Masterpieces of German Literature. (3-0-3) F.** Prerequisite: German 2202 or permission of the chairman of the department.

3303. **German Linguistics. (3-0-3) F.** Systematic drills used to build the student's knowledge of the structure of German and to eliminate errors caused by the patterns of the student's native English. Prerequisite: German 2202 or permission of the chairman of the department.
3304. **German Lyrics and Ballads. (3-0-3) (Omitted 1974-75)** Prerequisite: German 2202 or permission of the chairman of the department.
3306. **German Twentieth Century Literature. (3-0-3) S.** Prerequisite: German 2202 or permission of the chairman of the department.
3400. **Methods of Teaching German. (3-0-3).**
4401. **German Culture and Civilization. (3-0-3) S.** Prerequisite: Three years of college German or permission of the chairman of the department.
4402. **Topics of German Literature. (3-0-3) F, S.** Prerequisite: Three years of college German or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. **German Advanced Composition and Conversation. (3-0-3) Su.** Prerequisite: Three years of college German or permission of the chairman of the department.
- 4760 (5512). **Goethe. (3-0-3) Su 1975.**
4780. **Survey of German Literature II. (3-0-3) (Omitted 1974-75)** Survey of German literature from the Seventeenth to the Twentieth Centuries. Prerequisite: Three years of college German or permission of the chairman of the department.

FOREIGN LANGUAGE—LATIN

UNDERGRADUATE COURSES

- 1101, 1102. **Elementary Latin. (4-0-4 each course)** The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English. Prerequisite: For Latin 1102, Latin 1101.
2201. **Introductory Latin Reading. (4-0-4) F.** Intensive review of Latin grammar, readings from Aulus Gellius, Phaedrus, Caesar. Prerequisite: Latin 1102 or two years of high school Latin.
2202. **Intermediate Latin. (4-0-4) S.** Vergil's *Aeneid*. Selections from Books I to VI. Applicable Greek and Roman mythology and philosophy; scansion, sight translation; life of Vergil. Prerequisite: Latin 2201 or permission of the chairman of the department.
3301. **Survey of Roman Literature I. (3-0-3) (Omitted 1974-75)** Chronological selections illustrative of Latin literature in the period of the Republic. Prerequisite: Latin 2202 or permission of the chairman of the department.
3302. **Survey of Roman Literature II. (3-0-3) (Omitted 1974-75)** Chronological selections illustrative of Latin literature in the period of the Empire. Prerequisite: Latin 2202 or permission of the chairman of the department.
3303. **Cicero. (3-0-3) F.** Readings from the four orations against Catiline; life of Cicero; the backgrounds of Catiline's conspiracy; selected letters. Prerequisite: Latin 2202 or permission of the chairman of the department.

- 3304. Latin Literature. (3-0-3) S.** Directed readings at option of the student in philosophical essays (Cicero: *De Amicitia* and *De Senectute*); the works of Julius Caesar; Roman comedy or any similar genre in classical Latin literature. Prerequisite: Latin 2202 or permission of the chairman of the department. This course may be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
- 3305. Roman Poetry. (3-0-3) F. (Omitted 1974-75)** Selections from Catullus, Horace, Martial; Latin prosody. Prerequisite: Latin 2202 or permission of the chairman of the department.
- 3400. Methods of Teaching Latin. (3-0-3).**
- 4401. Ovid. (3-0-3) (Omitted 1974-75)** Selections from *Tristia*, *Heroides*, *Amores*, *Fasti*, *Metamorphoses*. The life and times of Ovid; Roman and Greek mythology. Prerequisite: Latin 3304 or permission of the chairman of the department.
- 4402. Latin Composition. (3-0-3) (Omitted 1974-75)** Extensive training and practice in expression in idiomatic classical Latin. Prerequisite: Latin 3304 or permission of the chairman of the department.
- 4403. Medieval Latin. (3-0-3) F. (Omitted 1974-75)** Analysis of the basic differences between Classical and Medieval Latin. Readings in the history, poetry, and philosophy of the Middle Ages. Prerequisite: Latin 3304 or permission of the chairman of the department.
- 4404. Roman History. (3-0-3) S. (Omitted 1974-75)** Selections from Books XXI and XXII of Livy; selections from Tacitus' *Germania*, *Agricola*, *Annals*, and *Histories*. Prerequisite: Latin 3304 or permission of the chairman of the department.

FOREIGN LANGUAGE—LINGUISTICS

UNDERGRADUATE COURSES

- 3350. Historical Linguistics. (3-0-3) F.** Introduction to historical linguistics. General principles and methods used in historical linguistic study and the types of change found in language. Prerequisite: Junior standing or permission of the chairman of the department.

FOREIGN LANGUAGE—RUSSIAN

UNDERGRADUATE COURSES

- 1001. Conversational Russian for Beginners. (2-0-2) F.** Pass-Fail only. Introduction to understanding and speaking everyday Russian. Not open to Russian minors.
- 1101, 1102. Elementary Russian. (4-0-4 each course)** Pronunciation; basic grammar; written and oral exercises; reading of simple prose; extensive use of the language laboratory. Prerequisite: For Russian 1102, Russian 1101.
- 2201, 2202. Intermediate Russian. (4-0-4 each course)** Study of grammar continued; written and oral exercises; reading of selected material. Prerequisite: For Russian 2201, Russian 1102 or two years of high school Russian; for Russian 2202, Russian 2201 or permission of the chairman of the department.

- 3301 Russian Conversation and Writing. (3-0-3) F.** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3303. Russian Linguistics. (3-0-3) (Omitted 1974-75)** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3304 Masterpieces of Russian Literature. (3-0-3) S.** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3306. Russian Civilization. (3-0-3) (Omitted 1974-75)** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3308. Russian Dramatists. (3-0-3) (Omitted 1974-75)** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3360. Twentieth Century Russian Literature in English Translation. (3-0-3) F.** Prerequisite: Junior standing or permission of the chairman of the foreign language department.
- 3400. Methods of Teaching Russian. (3-0-3)**

FOREIGN LANGUAGE—SPANISH

UNDERGRADUATE COURSES

- 1001. Conversational Spanish for Beginners. (2-0-2) F.** Pass-Fail only. Introduction to understanding and speaking everyday Spanish. Not open to Spanish majors and minors.
- 1101, 1102. Elementary Spanish. (4-0-4 each course)** Emphasis on conversation, grammar, reading; extensive use of language laboratory. Prerequisite: For Spanish 1102, Spanish 1101.
- 2201, 2202. Intermediate Spanish. (4-0-4 each course)** Review of grammar; practice in conversation and composition; reading of selected material. Extensive use of the language laboratory. Prerequisite: For Spanish 2201, Spanish 1102 or two years of high school Spanish; for Spanish 2202, Spanish 2201 or permission of the chairman of the department.
- 3301. Spanish Composition and Conversation. (3-0-3)** Guided conversation, grammar review, oral and written composition. Prerequisite: Two years of college Spanish or permission of the chairman of the department.
- 3303. Spanish Literature I. (3-0-3) F.** Introduction to Spanish literature from the Twelfth to Seventeenth Centuries. Prerequisite: Spanish 3301 or permission of the chairman of the department.
- 3304. Spanish Literature II. (3-0-3) S.** Introduction to Spanish literature from the Eighteenth to Twentieth Centuries. Prerequisite: Spanish 3301 or permission of the chairman of the department.
- 3305. Spanish American Literature I. (3-0-3) F.** Introduction to Spanish American literature from the Colonial period to 1886. Prerequisite: Spanish 3301 or permission of the chairman of the department.
- 3306. Spanish American Literature II. (3-0-3) S.** Introduction to Spanish American literature from 1886 to present. Prerequisite: Spanish 3301 or permission of the chairman of the department.
- 3400. Methods of Teaching Spanish. (3-0-3)**
- 4401. Spanish Advanced Grammar. (3-0-3) (Omitted 1974-75)** Prerequisite: Three years of college Spanish or permission of the chairman of the department.

- 4402. Masterpieces of Spanish Literature. (3-0-3) Su, S.** Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
- 4403. Spanish Culture and Civilization. (3-0-3) F.** Prerequisite: Three years college Spanish or permission of the chairman of the department; this course may be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Spanish Poetry. (3-0-3) Su, F.** May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
- 4760. Spanish Drama. (3-0-3) S.** May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
- 4770. Spanish Short Story. (3-0-3) Su.** Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.
- 4780. Spanish Novelists. (3-0-3) (Omitted 1974-75)** Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

GEOGRAPHY

UNDERGRADUATE COURSES

- 1500. World Geography. (3-0-3)** Study of man on the earth, stressing significant areal difference in population and the working bonds man has developed with the land and its resources.
- 3020. Anglo-America. (3-0-3)** Man's occupancy of the continent of North America with topical and regional emphasis on the United States.
- 3400. Instructional Techniques. (3-0-3)** A study of the materials and methods used in the teaching of geography in the secondary school. Admission to teacher education and junior standing.
- 3510. Middle America. (2-0-2)** An analysis of the resources, culture and problems of Mexico, Central America and West Indian Island.
- 3600. Economic Geography. (3-0-3)** An examination of world industries and the areal significance of economic activities with emphasis on the United States.
- 3620. Agricultural Geography. (3-0-3)** Essential agricultural resources and their associated industries studied with emphasis on the geographic aspects of recent developments. Rural geography treated.
- 3650. Cultural Geography. (3-0-3)** A systematic treatment of the spatial characteristics of man's culture.
- 3720. Geography of Illinois and the American Midwest. (3-0-3)** A study of Illinois and adjacent states: climate, landforms, soil, water and mineral resources, population distribution and economic activities and geographic regions analyzed.

- 3750. Population Geography. (3-0-3)** Analysis of world population including demographic characteristics, growth rates and distributional patterns.
- 3800. Cartography. (2-4-4)** Instruction and laboratory practice in compiling, designing and drafting of maps.
- 3810. Field Techniques and Problems. (2-4-4)** Instruction and experience in designing and conducting geographical field research.
- 3870. Conservation of Natural Resources. (3-0-3)** Geographical approach to the maintenance of a balanced ecology.
- 3950. Seminar. (3-0-3)** Topic to be announced in printed schedule. May be taken more than once.
- 4510. Geography of South America. (3-0-3)** Physical feature, resources, peoples, land utilization and economic development of the countries of South America.
- 4520. Geography of Europe. (3-0-3)** Europe: an introduction to the physical geography and the economic development of its countries.
- 4530. Geography of Asia. (3-0-3)** Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.
- 4550. The Soviet Union. (3-0-3)** An analysis of the physical and cultural elements that make up the geographical regions of the Soviet Union.
- 4580. Geography of Africa. (3-0-3)** A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.
- 4700. Historical Geography of the United States. (3-0-3)** Focuses on reconstructing past geographies of the United States.
- 4710. Political Geography. (3-0-3)** A study of the geographical basis to political power.
- 4730. Independent Study. (Arr.-Arr.-3)** Provides opportunity for independent study at the graduate or undergraduate level. May be taken for credit more than once.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Urban Geography. (3-0-3)** An analytical approach to the origin, development, structure, functions and problems of urban areas.
- 4770. Development of Geographic Thought. (3-0-3)** Analysis of the historical development of basic themes of geography. Emphasis on modern thought.
- 4780. Techniques in Geographic Research. (3-0-3)** An introduction to selected techniques in geographic research. Emphasis is accorded to statistical, bibliographic, interview methods and in research and writing.
- 4800. Advanced Cartography. (2-4-4)** The analysis and reproduction of maps and aerial photographs. Prerequisite: Mathematics 1310 or equivalent.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

- 5990. Independent Study. (1 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

GEOLOGY

UNDERGRADUATE COURSES

- 1400. Physical Geology. (3-2-4)** Common rocks and minerals; erosional processes that modify the Earth's surface, internal crustal activity. Field trip. No credit if Earth Science 3000 is taken.
- 2430. Historical Geology. (2-2-3)** Development of major structural segments of Earth's crust; fossil record of life; age relations among rock units. Field trip. Prerequisite: Geology 1400.
- 2440. Mineralogy. (1-4-3)** A study of minerals with emphasis on crystallography, genesis, association, and classification. Prerequisites: Geology 1400 and one course of college level chemistry.
- 3040. Modern Global Geoscience. (2-2-3)** Modern geoscience and physical oceanography, origin of present-day continents and ocean basins, interpretation of earth interior.
- 3430. Structural Geology. (2-2-3)** Forces involved in the deformation of rocks with emphasis on the recognition and interpretation of the resultant geologic structures. Field trip. Prerequisite: Geology 2430.
- 3440. Field Geology. (1-4-3)** Solution of geologic problems using field methods and techniques in collection, classifying and analyzing data. Prerequisites: Geology 2430 and permission of the instructor.
- 3450. Petrology (2-2-3)** Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip. Prerequisite: Geology 1400.
- 3460. Economic Geology. (2-2-3)** Origin, geologic occurrence and utilization of metallic and non-metallic mineral deposits including fuels and ground-water. Field trip. Prerequisite: Geology 1400.
- 3470. Seminar. (Arr.-Arr.-3)** Discussions, reports, and field work concerning selected geologic topics, with instructor guidance. May be taken more than twice for credit if a different topic is covered each time.
- 4400. Independent Study. (Arr.-Arr.-3)** Independent study in the field of geology, designed for the individual needs of the student. Prerequisites: Geology 2430 or permission of the instructor. May be taken twice.
- 4450. Stratigraphy and Sedimentation. (3-2-4)** Sequence and correlation of layered rocks; sedimentary facies; laboratory analysis of sediments; properties of sedimentary rocks; environmental interpretation. Field trip. Prerequisites: Geology 2430 and 3450.
- 4490. Invertebrate Paleontology. (2-2-3)** Description and classification of major fossil invertebrate groups; preservation of fossils; use of fossils in geologic work. Field trip. Prerequisite: Geology 2430.

HEALTH EDUCATION

UNDERGRADUATE COURSES

- 1200. Personal Health. (2-0-2)** The application of scientific health facts and principles that relate to effective living.

- 1320. First Aid. (2-0-2)** Designed to teach students the basic skills necessary to handle home and school emergencies.
- 2270. Community Health. (3-0-3)** Factors in the physical, biological, and social environments that influence the magnitude and character of health problems, goals, and solutions. Prerequisite: Health Education 1200 or equivalent.
- 2900. Diseases of Man. (2-0-2)** S. A study of the processes of disease and the occurrence of diseases in man.
- 3000. Instructor's First Aid. (3-1-3)** F, S. Standard, advanced, and instructor's first aid.
- 3010. Public Health Nursing. (3-0-3)** Su. A review of public health nursing principles, particularly for school nurses. Prerequisite: Permission of the chairman of the department. Recommend further work in health education which is a commonality course area for all public health personnel.
- 3200. School Health. (2-0-2)** A survey of the school health program with emphasis on the responsibilities of school personnel. Prerequisite: Health Education 1200 or equivalent.
- 3300. Principles of Accident Prevention. (2-0-2)** Safety problems of modern life in the home, school, during recreation, on the highway, and at work.
- 3310. Introduction to Driver Education. (3-2-4)** Preparation for high school driver education teachers. Includes simulation and work with beginning drivers. Prerequisites: Driver's license and safe driving record.
- 3320. Advanced Driver Education and Traffic Safety. (2-0-2)** Administration, organization, finance, special programs, and evaluation of school driver education programs.
- 3340. Accident Prevention in Schools. (2-0-2)** Scope of the school safety problem. Administrative, instructional and community responsibility for safe schools.
- 3350. Industrial Accident Prevention. (2-0-2)** S. Trends and organizational techniques in accident prevention programs as related to industrial operations.
- 3400. Teaching Health. (3-0-3)** F, S. Teacher preparation in curriculum development appraising materials, methods of presentation.
- 3500. Human Sexuality. (3-0-3)** A study of the biological, psychological, and cultural dimensions of human sexuality. *Note:* Credit may not be earned in both Health Education 3500 and Home Economics 2800.
- 3750. Health Care Delivery Systems. (3-0-3)** F, S. Review of contemporary approaches to the delivery of health care services in the United States.
- 4000, 4010, 4020. Community Health Field Service. (4000, 4010-3 sem. hrs. each; 4020-2 sem. hrs.)** An individually planned internship in a community health agency or organization. Prerequisites: Health Education 2270, 3200, 3750; and approval of the chairman of the department.
- 4741, 4742, 4743, 4744, 4745, 4746. Independent Study. (Arr.-Arr.-1, 2, 3, 4, 5, 6 respectively)** An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected topic in Health Education. Prerequisite: Permission of the chairman of the department. *Note:* May be repeated; the maximum amount of credit which may be earned is six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Public Health Statistics and Data Analysis. (3-0-3)** F. A review of mathematical principles and elementary statistics as related to an analysis of public health statistics. Prerequisite: Health Education 2270 or permission of instructor.
- 4800. Alcohol, Narcotics, Hallucinogenic Drugs: Science and Society. (3-0-3)** F. The use and abuse of drugs.

- 4820. World Health Perspectives. (2-0-2) F.** A survey of health status, beliefs, values, and practices of peoples and cultures in different parts of the world.
- 4900. Multi-Phase Driver Education. (2-2-3)** The five phase driver education curriculum. Actual practice with multi-media equipment-simulators, student response systems and the multi-car range. Prerequisites: Health Education 3310 or concurrent enrollment or permission of the instructor.
- 4996. Problems in Health Education. (3-0-3) Su.** Provides information relative to the health problems of the nation, school, and community, including resources, people, agencies and materials.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5010. Current Health Problems. (3) S.** An epidemiological investigation of the cause, nature, extent, and programming of current health problems.
- 5050. Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5090. Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

HISTORY

UNDERGRADUATE COURSES

- 1510 (2510). European Foundations of the Modern World. (3-0-3)** An introduction to the cultural intellectual, social and political developments in Europe from the Renaissance through Napoleon. (For majors and non-majors.)

- 1520 (2520). The World since 1814. (3-0-3)** An introduction to ideas and forces, cultural and intellectual developments, major revolutions and world conflicts that shaped the 19th and 20th centuries. (For majors and non-majors.)
- 2010. History of the United States to 1877. (3-0-3)** The colonial period; the independence movement; framing and adoption of the Constitution; growth of American nationality; Manifest Destiny; the Civil War and Reconstruction.
- 2020. History of the United States since 1877. (3-0-3)** The new industrial society; agrarian movement; the United States as a world power through two world wars, depression and after.
- 3010. Constitutional History of the United States to 1865. (3-0-3) (Omitted 74-75)** The constitutional history of the United States from the beginning to 1865.
- 3020. Constitutional History of the United States since 1865. (3-0-3) (Omitted 74-75)** The constitutional history of the United States from 1865 to the present.
- 3030. Social and Intellectual History of the United States to 1877. (3-0-3) F.** The background and development of the social and intellectual history of the United States through the mid-Nineteenth Century.
- 3040. Social and Intellectual History of the United States since 1877. (3-0-3) S.** The development of ideas and the way of life in later Nineteenth and Twentieth Centuries with emphasis on changes in thought resulting from two world wars.
- 3050. The Old South. (3-0-3) F.** A social history of the South before 1865 with emphasis on cultural deviations between North and South.
- 3060. The New South. (3-0-3) S.** A social history of the South since 1865, tracing the effects of the Civil War upon southern culture and developments in the Twentieth Century.
- 3070. History of the American Frontier, 1492-1790. (3-0-3) F.** The discovery, settlement, and westward movement in the United States, emphasizing the effect of the frontier in American history.
- 3080. History of the American Frontier, the Trans-Appalachian Frontier, 1790-1890. (3-0-3) S.** The occupation of the Mississippi Valley emphasizing the role of the frontier.
- 3090. Diplomatic History of the United States, 1776-1914. (3-0-3) F.** The American Revolution, Napoleonic Era, Expansion, Civil War, The War with Spain and Overseas Expansion, Rooseveltian Diplomacy.
- 3100. Diplomatic History of the United States, 1914 to the Present. (3-0-3) S.** First World War and Versailles, Isolation, World War II and problems of global politics.
- 3110. Afro-American History, 1619-1903. (3-0-3)** A history of Afro-Americans from their African background, the slave trade, struggle for equality and the decades of disappointment.
- 3120. Afro-American History 1903-Present. (3-0-3)** A history of Afro-Americans in the Twentieth Century. An examination of their struggle for civil rights, the advancement of black culture and black power.
- 3180. History of Illinois. (3-0-3)** A history of the state from the French regime through the Civil War to the present.
- 3250. Latin-American History to 1830. (3-0-3) F.** A survey of the colonial period of Latin American History.
- 3260. Latin-American History since 1830. (3-0-3) S.** A survey of the republican period of Latin-American History.
- 3430. History of England, 1066-1688. (3-0-3) F.** A survey of English History from the Norman conquest to the Glorious Revolution.

3440. **History of England and the British Empire, 1688-Present. (3-0-3) S.** A survey of English History from the Glorious Revolution to the present.
3510. **Ancient History. (3-0-3).** Peoples and eras for 4,000 years from Sumer to Rome — religions and law, governments and societies, arts and sciences.
3520. **Medieval History. (3-0-3)** Empire and culture in the Latin West and in the Greek East — law, education, science, art and literature, society.
3530. **Islam to 1700. (3-0-3) (Omitted 1974-75)** The conquests, law and customs, arts and sciences of the Moslem world, including Spain, Persia, the Turks, and the Sudan.
3550. **Spanish History. (3-0-3) F.** Crucial Periods: Moorish and Reconquest Kingdoms 711-1492, Empire and Splendor 1492-1600, 20th Century.
3610. **Czarist Russia. (3-0-3) F.** History of Russia to 1800.
3620. **Czarist and Soviet Russia. (3-0-3) S.** History of Russia from 1801 to the present.
3700. **Europe in the Eighteenth Century. (3-0-3) F.** A study of the rise of new powers with emphasis on the ideas of the Enlightenment.
3710. **The French Revolution. (3-0-3) S.** A study of the French Revolution and the concept of revolution in general.
3720. **Europe in the Nineteenth Century. (3-0-3) F.** A study of nationalism, and other important "isms" of the century.
3730. **The World in the Twentieth Century. (3-0-3) S.** The apex and decline of European hegemony in the age of the world wars, class war, cold war and totalitarianism.
3990. **Summer Study in Ireland. (0-0-6) Su.** Independent research in history. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.
4010. **The American Colonies. (3-0-3) F.** Colonization of the area now included in the United States; the political, economic and social development of the American colonies to 1763.
4020. **The American Revolution and Confederation. (3-0-3) S.** The origins of the American Revolution; consequences of the revolution; problems of the critical period; American Constitutionalism.
4030. **Making A Nation, 1787-1812. (3-0-3) (Omitted 1974-75)** The creation of the federal government and the rise of the American nation.
4040. **Jackson and the Emergence of the New Politics. (3-0-3) (Omitted 1974-75)** The reorganization of American politics and the rise of the "common man."
4050. **Expansion and Disunion, 1840-1861. (3-0-3) F.** A study of the expansionist period of the mid-Nineteenth Century and the background of the Civil War period.
4060. **Civil War and Reconstruction. (3-0-3) S.** A survey of the causes of the Civil War, the War, and its legacy.
4080. **The Emergence of Industrial America. (3-0-3) F.** An intensive study of the transformation of the United States from a largely agrarian society to an urban and industrial power between the years 1870 and 1920.
4090. **Recent United States History. (3-0-3) S.** An intensive study of political, social and intellectual developments in the United States since World War I.
4120. **American Urban History. (3-0-3) F.** An intense study of American urban development.
4130. **The History of Racism in the United States. (3-0-3) F, S.** A survey of the racist ideology in the United States as directed at various minority groups.
4132. **History of Religion in the United States. (3-0-3) F.** A study of the religious life of the

American people and how it has interacted and influenced other dimensions of our national experience from the colonial days to the present.

- 4150. Readings on the American Character. (3-0-3) S.** Studies of the American Character and Mind, 1607 to the present.
- 4260. Problems in Latin-American History. (3-0-3) (Omitted 1974-75)** Major problems in the history of Latin-America.
- 4280. Latin-America and the United States. (3-0-3) (Omitted 1974-75)** A study of the history of diplomatic relationships between Latin America and the United States.
- 4400. Independent Study in History. (Arr.-Arr. 1 to 4)** (No student may earn more than four semester hours credit) Intensive individual study on a topic selected by student with approval of instructor.
- 4410. Constitutional History of England to 1485. (3-0-3) (Omitted 74-75)** The development of the common law, court system and constitutional monarchy to 1485.
- 4420. Constitutional History of England since 1485. (3-0-3) (Omitted 74-75)** The development of the common law, court system, constitutional monarchy and democratic institutions since 1485.
- 4430. Stuart England. (3-0-3) F.** The struggles of political forces in Great Britain during the rise to world power.
- 4440. Hanoverian England. (3-0-3) (Omitted 1974-75)** A thorough study of England in the "Age of Reason," to which it contributed many ideas.
- 4450. Victorian England. (3-0-3) S.** Great Britain and her Empire in the age of their greatest influence and extent.
- 4500. Historical Methods. (2-0-2) F, S.** Instruction in research techniques and the mechanics of historical composition.
- 4555. History of Modern Socialism. (3-0-3) Sp.** The development of socialist theories and societies in modern times.
- 4640. Social and Intellectual History of Russia and the U.S.S.R., 1825-Present. (3-0-3) (Omitted 1974-75)** A social and intellectual history of Russia from 1825 to the present.
- 4650. History of Nationalism: Patterns and Manifestations. (2-0-2) F.** Comparative and analytical study of nationalism as a history making force in the modern world, Nineteenth and Twentieth Centuries.
- 4660. Eastern Europe from World War I to the Present. (3-0-3) (Omitted 1974-75)** Eastern Europe from World War I to the present.
- 4710. History of Germany, 1815-1918. (3-0-3) (Omitted 1974-75)** The rise of nationalism and liberalism, the 1848 Revolution, Bismarck and the emergence of the German Reich, World War I.
- 4720. Germany since 1919. (3-0-3) (Omitted 1974-75)** The Weimar Republic, National-Socialism, World War II, Post-war Germany.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5160. Seminar in American History. (3)** Intensive study of special topics in American history, to be determined by the instructor.

- 5200. Seminar in Colonial American History (3)** Research in topics dealing with Colonial American history.
- 5210. Seminar in Civil War and Reconstruction. (3)** Intensive study in topics dealing with Civil War and Reconstruction.
- 5220. Seminar in Twentieth Century America. (3)** Intensive study in topics dealing with Twentieth Century America.
- 5300. Seminar in Afro-American History. (3)** Selected problems dealing with major intellectual currents and personalities in Afro-American history.
- 5310. Seminar in Social and Intellectual History. (3)** Research in topics dealing with social and intellectual history of the United States.
- 5320. Seminar in the American West. (3)** An intensive study of western topics with emphasis on a seminar paper.
- 5330. Problems in the Diplomatic History of the United States. (3)** Intensive reading in selected problems of United States diplomacy.
- 5600. Seminar in European History. (3)** Intensive study in special topics in European history, to be determined by the instructor.
- 5620. Seminar in the Middle Ages and the Renaissance. (3)** Study and research in selected Medieval and Renaissance topics.
- 5640. Seminar in Eighteenth Century Europe. (3)** Intensive study in topics dealing with Eighteenth Century Europe.
- 5650. Seminar in Nineteenth Century Europe. (3)** Intensive study in topics dealing with Nineteenth Century Europe.
- 5660. Seminar in Twentieth Century Europe. (3)** Intensive study in topics dealing with Twentieth Century Europe.
- 5700. European Diplomacy, 1919-1945. (3)** Study of interwar diplomacy with emphasis on Paris Peace Treaties, Rapallo, Locarno, Munich, Little Entente, Hitler Stalin Pact.
- 5720. Seminar in Russian Foreign Policy. (3)** Selected topics in Russian foreign policy from 1814 to 1960.
- 5900. Historiography. (3)** Major historians: American or European.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

HOME ECONOMICS

UNDERGRADUATE COURSES

- 1120. Foods I. (1-2-2)** A study of the guidelines important in developing desirable habits in providing the family food supply.
- 1150. Nutrition. (3-0-3)** The principles of human nutrition and their application to everyday nutritional problems. For majors only (See Home Economics 3190 for others.)

- 2120. Foods II. (1-4-3) F, S.** A study of the scientific principles and techniques underlying food preparation. Prerequisite: Home Economics 1120.
- 2231. Sociology of Clothing. (3-0-3) F.** Significance of psychological reasons for clothing selection; political and economic trends affecting clothing.
- 2232. Historic Costume and Fashion Analysis. (3-0-3) F.** A historic and current study of fashion; the production and distribution of fashion goods.
- 2244. Consumer Textile Products. (2-0-2)** A study of family clothing and common household textile products as they relate to the consumer.
- 2245. Textiles. (3-0-3) S.** An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market. Prerequisite: Home Economics 2244.
- 2250. Household Equipment. (3-0-3)** Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.
- 2251. Household Physics. (1-4-3) S. (Alternate odd years)** Application of selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Prerequisite: Home Economics 2250.
- 2270. Family Housing. (2-0-2)** Arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.
- 2800. Family Relationships. (3-0-3)** Study of the family as the basic unit of society; personal relationships, and family interaction throughout the family life cycle. *Note:* Credit may not be earned in both Home Economics 2800 and Health Education 3500.
- 2850. Child Development. (3-0-3)** The physical, intellectual, social, and emotional development of the pre-school child.
- 3120. Experimental Foods. (1-4-3) S.** Studies of physical and chemical reactions in food preparation when experimental procedures are applied. Prerequisite: Home Economics 2120.
- 3140. Family Food Management. (0-4-2) F, S.** Application of scientific principles of menu construction, food buying, food preparation and table service with special emphasis on management. Prerequisite: Home Economics 2120.
- 3150. Advanced Nutrition. (2-0-2) F, S.** Human nutrition principles applied to needs of individuals at various stages in the life span, with emphasis on nutrition education. Prerequisite: Home Economics 1150 or equivalent.
- 3190. Human Nutrition and Food Study. (2-0-2) F.** Fundamentals of nutrition as applied to adults and children; principles involved in menu building, food buying and preparation. For non-majors only.
- 3236. Principles of Clothing Construction. (0-10-5)** Principles in the selection of fabrics, designs and patterns; construction processes; garment fitting.
- 3237. Tailoring. (0-6-3) F, Su.** Fabric selection and techniques used in the tailoring of a suit or coat. Prerequisite: Home Economics 3236 or permission of the instructor.
- 3300. Consumer Education. (3-0-3)** Factors affecting family financial management, including investments and savings; use of credit; insurance and taxes. Team taught with Business Education 3000.
- 3307. Home Management Theory and Laboratory. (1-4-3) F, S.** A study of planning, guiding, and directing the use of human and material resources toward individual and family goal achievement. Prerequisite: Home Economics 2120.
- 3370. Field Experience. (Arr.-Arr.-3)** An individually planned work experience in a business or agency appropriate to the student's area of specialization. Prerequisite: Junior standing,

permission of the Dean and acceptance of the student by a business or agency. May be taken not more than twice for credit.

- 3371. Field Experience. (Arr.-Arr.-3)** An individually planned work experience in a business or agency appropriate to the student's area of specialization. Prerequisites: Junior standing, permission of the Dean of the School of Home Economics and acceptance of the student by a business or agency. May be taken not more than twice for credit.
- 3400. Methods of Teaching Home Economics. (3-0-3) F, S.** The principles of teaching applied to home economics with particular emphasis on curriculum development.
- 3750. Independent Study in Home Economics. (Arr.-Arr.-3)** Provides opportunity for in-depth study of home economics subjects for which there is not an established course. May be taken for credit only once. Prerequisite: Prior approval by the instructor and the Dean.
- 3820. The Family in Social Change. (2-0-2) S.** The study of social change in the family and recent trends in family life and family life education. Prerequisite: Home Economics 2800, or permission of the instructor.
- 3831. Women in Contemporary Society. (3-0-3)** An interdisciplinary study of the emergence of women as a viable force in contemporary society.
- 3853. Practicum in Child Development. (1-4-3)** Supervised observation and participation in the guidance of children in the Nursery School. Prerequisites: Home Economics 2850 or Elementary Education 2320 or permission of the instructor.
- 3920. Communications in Home Economics. (2-0-2) S.** Techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups.
- 3925. Demonstration Techniques. (0-4-2) F.** Development of desirable techniques and standards for use in business, teaching, and adult education.
- 4140. Institutional Food Management. (1-4-3) F.** Practice in quantity food production, menu planning, recipe standardization, management of time motion and materials. Prerequisites: Home Economics 1150 or 3190 and 2120.
- 4150. Diet Therapy. (2-2-3) (Odd numbered years) S.** A study of the therapeutic care of a patient through the prescription of specific diets in relation to disease syndromes. Prerequisite: Home Economics 3150.
- 4237. Professional Tailoring Techniques. (0-4-2) (Even numbered years) S.** Techniques used in altering and/or restyling women's and men's tailored garments. Prerequisite: Home Economics 3237.
- 4238. Principles of Pattern Design. (0-6-3) F.** Principles of designing clothing and the translation of these designs into an original pattern. Prerequisite: Home Economics 3236 or permission of the instructor.
- 4280. Interior Design and Home Furnishings. (3-0-3) S.** The selection, production, and arrangement of home furnishings at different income levels.
- 4300. Consumer Problems. (0-4-2) S.** Current issues and problems confronting the contemporary family in safe-guarding and spending the family income. Prerequisite: Home Economics 3300 or equivalent.
- 4400. Senior Seminar. (3-0-3) F, S.** Philosophy, current trends and research in home economics.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4840. The Disadvantaged Family. (3-0-3)** Low income and minority group families and their values, needs, problems and practices. Prerequisite: Home Economics 2800 or permission of the instructor.

- 4845. The Family in Crisis. (3-0-3) S.** In-depth study of major crisis situations faced by families. Some emphasis on resources that offer help to families faced with crisis situations. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4846. Aging and the Family. (3-0-3) S.** Aging as a phase in the family developmental process and the consequent effect. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4851. Infant Development. (2-0-2) F.** Neonatal and postnatal development; trends of pediatric management for optimum health and welfare.
- 4854. Parent-Child Study. (3-0-3) S.** Detailed study of parent-child interaction and techniques and methods for parent education; observation and participation included.
- 4859. Administration of Child Care Programs. (3-0-3) F.** Organization, administration, curriculum, facilities, and parent education aspects of child care programs. Prerequisite: Home Economics 3853 or permission of the instructor.
- 4940. Homemaker Rehabilitation. (2-0-2) (Even numbered years) F.** Personal and family problems of the handicapped homemaker, stressing techniques which lead to independence.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5050. Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5090. Seminar in Occupational Education, (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5120. Contemporary Developments in Foods. (3-0-3)** Selected topics from recent developments in the science of food preparation, prefabrication, and preservation. Prerequisite: Home Economics 2120 or equivalent.
- 5150. Community Nutrition Programs. (3)** A study of the problems of nutrition that affect large numbers of people and that are solved through group action. A study project is part of the course.

- 5300. Curriculum Development in Consumer Economics. (3) (Even numbered years)** S. Recent trends in consumer economics, consumer education programs and legislation affecting consumers.
- 5360. Seminar in Clothing and Textiles. (3-0-3)** A study of selected topics in the fields of clothing, textiles, and related areas, which is designed for the professional home economist. Prerequisites: Home Economics 2245 and 3237 or equivalents.
- 5400. Curriculum Development in Home Economics Education. (2) F. (Even numbered years)** Theoretical background and experimental approaches to curriculum improvement.
- 5410. Curriculum Development in Occupational Education. (2) S. (Odd numbered years)** Occupational training aspects of home economics education as outlined in the Vocational Educational Act of 1963.
- 5450. Supervision in Home Economics. (3) F.** The role of the supervising teacher; problems of orientation, guidance and evaluation.
- 5460. Current Issues and Trends. (3) S.** A seminar dealing with the current and emerging problems, issues, trends, and developments in the field of home economics.
- 5470. Evaluation in Home Economics. (2) S.** Development and critical evaluation of instruments designed to measure pupil growth.
- 5900. Research Methods in Home Economics (2) (Odd numbered years)** Research techniques in writing, interpreting, and evaluating home economics research.
- 5950. Thesis. (3 to 6)** Individual direction of research thesis writing. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

INDUSTRIAL ARTS

UNDERGRADUATE COURSES

- 1013. Basic Engineering Drafting. (1-4-3)** Graphics in industry; basic graphical projection, spatial relationships, classification, specifications and topographical graphics.
- 1043. Engineering Graphics. (1-4-3) F, S.** Multiview, graphs, isometric and oblique projection; sectional views and dimensioning; concepts of descriptive geometry.
- 1063. Metals in Technology. (1-4-3)** Processes and commercial application of metals with emphasis on design and manufacturing as influenced by fabricating procedures.
- 1113. Survey of Graphic Arts. (1-4-3)** A survey of graphic arts and allied industries with study of surface image transfer.
- 1163. AC and DC Circuits. (2-2-3)** Comprehensive study of alternating and direct current with practical laboratory application.
- 1213. Woods in Technology. (1-4-3)** Function, care and use of woodworking tools, equipment, supplies and finishes.
- 1293. Industrial Crafts. (1-4-3)** Development, concepts, and selected processes in various craft media; recreation, special education and consumer oriented.
- 1323. Power in Technology. (2-2-3)** Internal combustion, reaction and pressure engines. Electrical and nuclear power, hydraulics, pneumatics.

- 1412. Orientation to Study of Industrial Education. (2-0-2) F, S.** Origin, development organization and administration of general and occupational programs of industrial education.
- 2023. Fabrication Drafting Analysis. (2-2-3) S.** Drafting techniques, methods and standards in industrial fabrication. Prerequisite: Industrial Arts 1013.
- 2052. Industrial Arts Design. (2-0-2) S.** History, philosophy, and methodology in the concepts and essentials of industrial design.
- 2123. Photo Conversion Laboratory. (1-4-3) S.** Image assembly, photo conversion techniques. Black and white line and halftone, color separation. Prerequisite: Industrial Arts 1113.
- 2163. Basic Vacuum Tube Circuits. (2-2-3) F.** Descriptive, graphic and equivalent circuit approach to the study of tubes as applied to rectification and amplification. Prerequisite: Industrial Arts 1163.
- 2173. Basic Semi-conductor Circuits. (2-2-3) S.** Semi-conductor devices; study of transistors, oscillators, detectors, etc. Prerequisite: Industrial Arts 1163.
- 2223. Basic Fabrication of Woods. (1-4-3) S.** Power woodwork equipment and mass production. Prerequisite: Industrial Arts 1213.
- 2242. Primary Grade Industrial Arts. (1-2-2)** Industrial arts activities as a teaching device in the primary grades. Emphasis on career, occupational awareness and special education preparation.
- 2252. Intermediate Grade Industrial Arts. (1-2-2) F, S.** Industrial arts activities as orientation to industry (manufacturing, etc.) with laboratory experiences. (Consumer, career and special education emphasized.)
- 2353. Heat Engines. (3-0-3) S.** Design and systems for control, air pollution characteristics, cooling, electricity, and lubrication of gasoline, diesel, gas turbine, jet and rocket engines. Prerequisite: Industrial Arts 1323.
- 3013. Architectural Planning and Analysis. (2-2-3) S.** Cost factors in home construction, styles, planning and selection of materials.
- 3023. Architectural Drafting and Design. (1-4-3) F.** Principles of house construction, construction details, working drawings, and specifications.
- 3033. Production Drafting and Design. (2-2-3) S.** Comprehensive study of uses and construction of production drawings in graphic communication. Prerequisite: Industrial Arts 1013.
- 3063. Metal Machining Processes. (1-4-3) F, S.** Study of processes involved in lathe, mill, shaper, drills, surface grinder operations. Prerequisite: Industrial Arts 1063 or Industrial Technology 1013.
- 3072. Production Metal Processes. (0-4-2) S.** Multiple part production involving design, layout, shaping and fabrication. Prerequisite: Industrial Arts 3063.
- 3082. Advanced Metal Processes. (0-4-2) S.** Comprehensive metal processes involving casting, grinding, chipless machine operation, numbered control and equipment selection. Prerequisite: Industrial Arts 3063.
- 3102. Forming and Fabricating Sheet Materials. (1-2-2) F, S.** Design, layout, forming, shaping and fabrication of sheet materials. Prerequisite: Industrial Arts 1063.
- 3123. Image Transfer Laboratory. (1-4-3) F.** Stripping, imposition, lock-up, image carriers. Special make-readies, offset, letterpress image transfer. Prerequisite: Industrial Arts 1113.
- 3133. Graphic Arts Technology. (3-0-3) F.** Production of books, magazines, newspapers with computer implications for typesetting, quality control, inventory and personnel. Prerequisite: Industrial Arts 1113.

- 3223. Wood Turning and Finishing. (1-4-3) F.** Comprehensive study of wood finishing, origin, development and techniques of wood turning.
- 3233. Production Wood Technology. (1-4-3) S.** Furniture and cabinet construction with power equipment. Prerequisite: Industrial Arts 2223.
- 3313. Electrical and Chemical Power. (3-0-3) F.** Sources of electrical and chemical power, batteries, electromatic, generators. Prerequisites: Industrial Arts 1163 and 1323.
- 3322. Power Transmission. (2-0-2) S.** Comprehension of design and methods of transmitting power by hydraulics, pneumatics and mechanical unit. Prerequisite: Industrial Arts 1323.
- 3400. Methods of Teaching Industrial Arts. (3-0-3) F, S.** Teaching techniques and the selection and organization of industrial material. Prerequisites: Four courses in industrial arts.
- 4052. Graphical Industrial Illustration. (0-4-2) S.** In-depth study of graphical representation and statistical data. Prerequisite: Industrial Arts 2023.
- 4093. Welding Technology. (1-4-3) F, Su.** Study of gas and electric welding. Prerequisite: Industrial Arts 1063.
- 4123. Image Transfer Theory. (3-0-3) F.** Papers, inks, image transfer carriers, equipment systems, materials, commodities. Prerequisite: Industrial Arts 1113.
- 4212. Restoration of Antique Furniture. (1-2-2)** Study of antique furniture and complete restoration.
- 4223. Mass Fabrication in Woods. (0-6-3) F.** In-depth study of mass production techniques in the wood industry. Prerequisites: Industrial Arts 2223 or 3233.
- 4231. Tool Maintenance. (0-2-1) S, Su.** Comprehensive study of tool and equipment maintenance and repair.
- 4313. Ignition and Fuel Systems. (2-2-3) F, Su.** Comprehensive scientific study of total ignition and fuel systems concepts. Prerequisite: Industrial Arts 1323.
- 4470. Independent Study. (Arr.-Arr.-1-5)** Technical investigation involving written research and laboratory experimentation. Prerequisite: Permission of the instructor.
- 4480. Independent Study. (Arr.-Arr.-1-5)** Research oriented-technical investigations involving written research and laboratory experimentation. Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4752. Applied Descriptive Geometry. (2-0-2) S.** Advanced spatial projection theories, spatial relationships and geometry of points, lines, and planes; problem solution by rotation.
- 4763. Photo-conversion Theory. (3-0-3) S.** Image assembly, photo conversion technique. Emphasis upon optics and chemistry of photo-conversion. Prerequisite: Industrial Arts 1113.
- 4902. Task Analysis and Course Outline. (2-0-2)** Study of the techniques of analyzing occupations with specific components and developments of course outline for instruction program. Prerequisite: Industrial Arts 3400.
- 4932. Organization of Subject Matter. (Arr.-Arr.-2)** Advanced work in preparation of instructional materials. Prerequisite: Industrial Arts 3400.
- 4953. Student Achievement and Program Evaluation. (3-0-3) Su.** Comprehensive study of techniques of evaluation and criteria for program evaluation. Prerequisite: Industrial Arts 3400.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5050. Occupational Cooperative Education. (3) On demand.** A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5090. Seminar in Occupational Educational. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.
- 5503. Graphic Arts in a Changing Culture. (3) S, Su.** Graphic arts from an art to a technology — incunabula period.
- 5652. History and Philosophy of Industrial Education. (2) F, Su.** Sociological principles, theories, and beliefs which have contributed to present educational theory.
- 5722. Innovations in Industrial Education. (2) S, Su.** Comprehensive investigation of current experimental and established programs.
- 5803. Facility Planning in Industrial Arts. (3) Su.** Study facilities and equipment needs for teaching industrial arts, opportunity is provided for planning new laboratories and redesigning established laboratories.
- 5900. Introduction to Research in Industrial Education. (2)** Study of research techniques and a research project — including written report and laboratory experimentation.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Preparation of instructional display panels and devices. Slides, transparencies, etc., research papers. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

INDUSTRIAL TECHNOLOGY

UNDERGRADUATE COURSES

- 1013. Industrial Materials and Processes. (3-0-3) F.** Sources, extra-active processes, properties, manufacturing methods, appropriate utilization, and environmental ecological impact of industrial materials.
- 3003. Industrial Mechanics. (3-0-3) F.** Mechanics of machinery, including gear, belt, cam hydraulic, and pneumatic power transmitting systems. Prerequisites: Physics 1350 and Mathematics 1340.
- 3012. Metrology and Inspection Procedures. (2-0-2) S.** Applications of metrology in production manufacturing; inspection instruments and procedures. Prerequisites: Industrial Arts 1163 and 3063; junior standing.
- 3043. Engineering Geometry and Graphics. (2-2-3) F.** Advanced spatial geometry; parallel, angular and perpendicular relationship; graphical calculus; empirical equations; plane and space vectors. Prerequisites: Industrial Arts 1013 or 1043; Mathematics 1340.
- 3163. Communications Circuits and Systems. (2-2-3) F.** Electronic power supplies, audio amplifiers, transmitters and receivers. Prerequisites: Industrial Arts 2163 and/or 2173.
- 3201. Surveying. (0-2-1) F.** Field work in location, elevation, and land surveys. Prerequisites: Industrial Arts 1013 or 1043; Mathematics 1310.
- 3905. Industrial Internship. (Arr.-Arr.-5)** Employment experience in an area related to the student's option. May be taken only under Pass/Fail option. Prerequisite: Permission of the chairman of the department; junior standing.
- 3915. Industrial Internship. (Arr.-Arr.-5)** Employment experience in an area related to the student's option. May be taken only under Pass/Fail option. Prerequisite: Permission of the chairman of the department; junior standing.
- 3920. Independent Study. (Arr.-Arr.-1-5)** Independent study related to personal technological career goals in industrial technology. May be repeated to a maximum of five semester hours of elective credit in industrial technology. Prerequisite: Junior standing and permission of the chairman of the department.
- 4002. Materials Testing. (0-4-2) S.** Applied analysis of mechanical and physical properties of industrial materials. Prerequisites: Mathematics 1340; Industrial Arts 3063; Industrial Technology 1013; Physics 1350.
- 4043. Statistical Quality Assurance. (3-0-3) S.** Principles of total quality control; shewhart control charts; acceptance sampling; capability and reliability studies. Prerequisites: Mathematics 1340; junior standing.
- 4163. Industrial Electronics. (1-4-3) S.** Industrial control of processes, materials, machines, energy and information. Prerequisites: Industrial Technology 3163 or Physics 3150.
- 4172. Electronic Instrumentation. (1-2-2) F.** Application of basic electronic instrumentation devices, transducers and elements in measuring temperature, level, flow, viscosity, humidity, pH and displacement. Prerequisite: Industrial Arts 1163.
- 4222. Principles of Cost Estimating. (2-0-2) S.** Procedures in estimating material, labor and fabrication costs. Prerequisite: Junior standing.
- 4243. Construction Practices. (3-0-3) S.** Methods, materials, and procedures in construction management. Contracting, personnel management, specification procedure, fabrication techniques. Prerequisite: Industrial Arts 3023.
- 4602. Physical Metallurgy. (0-4-2) F.** Methods of altering, controlling and determining physical properties of metals. Prerequisite: Industrial Arts 3063.

- 4643. Metal Casting Processes. (1-4-3) S.** Control and prevention of casting defects, sand conditioning, melting and pouring techniques. Prerequisite: Junior standing.

INSTRUCTIONAL MEDIA

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4870. Introduction to Instructional Media. (3-0-3)** Theory and principles for use of instructional media.
- 4880. Preparation and Use of Instructional Materials. (1-4-3)** Production of locally prepared instructional materials. Materials fee.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5200. Television in Education. (3) Su, F.** Methods and techniques of television production, direction, and operation covering open and closed-circuit television.
- 5210. Instructional Systems. (3) F.** Study and development of instructional systems in the teaching-learning situation.
- 5220. Photography in Education. (3)** Photographic techniques for making materials for classroom instruction. Emphasis upon prints, color slides and large transparencies. Materials fee.
- 5230. Organization and Supervision of Instructional Media Programs. (3) S.** Problems of organizing and supervising media in the individual school, district, county and/or university.
- 5300. Advanced Media Design. (4) S.** Advanced design and creation of instructional materials for media specialists. Prerequisites: Instructional Media 4880, 5220, or permission of the chairman of the department.
- 5310. Communication Through Instructional Media. (3) F.** Nature of media in communication and relationship to skills needed for media specialists. Prerequisites: Instructional Media 4870, 4880, or permission of the chairman of the department.
- 5490. Special Educational Problems. (1-3) On demand.** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of significant nature. May be repeated for a total of six semester hours credit.

- 5890. Seminar in Instructional Media. (3) S, Su.** Special study on problems of production, administration and utilization of instructional media materials in schools. Prerequisite: Instructional Media 4870, 5210, or equivalent.
- 5900. Introduction to Research in Instructional Media. (2) On demand.** Provides experience in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Instructional Media 5210, 5310, or permission of the chairman of the department.
- 5950. Thesis and Research. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) On demand.** Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
- 6100. Motion Picture Photography in Instructional Media. (4) On demand.** Motion picture photography taught through study of commercially produced educational films and individual production of a short motion picture film. Materials fee. Prerequisite: Instructional Media 5220.
- 6110. Field Experience. (4) S.** Supervised experience in conducting instructional media programs. May be arranged in school in which student is employed, or other arrangements acceptable to the department may be made.
- 6120. Field Experience. (4) S.** Supervised experience in conducting instructional media programs. May be arranged in school in which student is employed, or other arrangements acceptable to the department may be made.
- 6300. Advanced Photography in Education. (4) S.** Teaching media specialists the use of the photographic image in the educational process. Prerequisite: Instructional Media 5220. Materials fee.
- 6310. Program and Script Writing for Instructional Television. (3) F.** Designed to provide experience in planning and writing for instructional television. Prerequisite: Instructional Media 5200.

JOURNALISM

UNDERGRADUATE COURSES

- 2100. Introduction to Journalism. (3-0-3)** Historical development of American mass media, with emphasis on the newspaper; the mechanics, the craft, and the ethics of journalism.
- 2101. Newswriting I. (2-2-3)** Principles of gathering and writing news; laboratory experiences with basic news stories.
- 2102. Newswriting II. (2-2-3) F, S.** Advanced techniques of reporting; laboratory experiences with specialized news stories. Prerequisite: Journalism 2101.
- 3100. News Editing and Make-Up (2-2-3) F, S.** Editing the news, emphasizing copy-editing, headlines and page design. Prerequisite: Journalism 2101.
- 3101. Advanced Reporting (3-0-3) F, S.** Interpretative reporting, with emphasis on communication law. Prerequisite: Journalism 2101.
- 3102. Article Writing. (2-0-2) F, S.** Newspaper-magazine features, articles. Study of free-lance writing.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Supervision of High School Publication. (3-0-3) Su.** Problems for advisors to high school publications; staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

JUNIOR HIGH SCHOOL EDUCATION

UNDERGRADUATE COURSES

- 3110. Directing Learning in the Junior High School. (3-1-3) F, S.** Administration, organization, and function of the junior high school; general methods, planning, evaluation, guidance and classroom management.
- 3130. Teaching Social Studies and Language Arts in the Junior High School. (3-1-3) F, S.** The objectives, methods, materials, and content with an emphasis upon correlation. Prerequisites: Junior standing; Junior High School Education 3110.
- 3140. Teaching Mathematics and Science in the Junior High School. (3-1-3) F, S.** The scope, sequence, and interrelationship of the mathematics and science curricula, including methods and materials. Prerequisites: Junior standing; Junior High School Education 3110.
- 4280. Teaching Reading in the Secondary School. (2-2-3) F, S.** Techniques for providing appropriate reading instruction in proper sequence for students in grades seven through twelve. Prerequisite: Eight semester hours in education and psychology.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4770. The Junior High School. (3-0-3) F, even numbered years; Su, odd numbered years.** Study of historical development, current practices, policies, and trends in junior high school education. Prerequisites: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5270. Reading Instruction in the Junior and Senior High School. (3-0-3) F, S.** A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs. Prerequisite: Eight semester hours in education and psychology.

LIBRARY SCIENCE

The undergraduate minor consists of eighteen semester hours. Junior standing is a prerequisite for beginning to take Library Science courses. The study of Library Science and Instruc-

tional Media courses can be combined to meet requirements for school personnel employed as media specialists. Students interested in Library Science are encouraged to talk with the chairman of the department about program plans.

UNDERGRADUATE COURSES

- 3200. The School Library Materials Center. (3-0-3)** The services and administration of the school library materials center.
- 3300. Literature for Children. (3-0-3)** Types of resources best suited to children of grades 1 through 6. Reading and evaluation of materials.
- 3320. Literature for Young People. (3-0-3)** Types of resources best suited for adolescents. Reading and evaluation of materials.
- 4490. Observation and Practice. (2-8-3)** Practical experience in library work with special emphasis on service to the public. Two seminars per week. Prerequisites: At least four library science courses including 4750, 4760, and 4770.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Reference Materials and Services. (3-0-3)** Introduction to general and specialized sources of information: their content, evaluation, and use.
- 4760. Selection of Library Materials. (3-0-3)** Principles and practices related to selecting and acquiring all types of library materials.
- 4770. Organization of Library Materials. (3-0-3)** Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other materials.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5100. History of Libraries. (3) F.** Study of the development of the library as an institution.
- 5200. Library Administration. (3) Su, S.** Principles of administration with practical application to the management of libraries. Prerequisites: Library Science 4750, 4760, 4770.
- 5300. Studies in Children's Materials and Services. (3) S, Su.** A critical investigation of contemporary library materials and services designed for children. Includes national and international developments.
- 5320. Studies in Adolescent and Young Adult Materials and Services. (3-0-3) Su, F.** Survey of library materials designed for adolescents and young adults. Includes analysis of materials for reading guidance and discussion of national and international developments.
- 5600. Organization of Information and Library Materials. (3) Su, S.** Advanced study of information systems and library catalogs: history, preparation, evaluation, management and use. Prerequisites: Library Science 4750, 4770.
- 5710. Social Science Literature. (3) Su.** Intensive study of information sources in sociology, geography, psychology, economics, anthropology, history, and political science. Prerequisites: Library Science 4750 and 4760.
- 5720. Literature of the Humanities. (3) F.** Intensive study of information sources in religion, philosophy, music, art, literature, and language. Prerequisites: Library Science 4750, 4760.

- 5730. Literature of Science and Technology. (3) S.** Intensive study of information sources in science and technology. Prerequisites: Library Science 4750, 4760.
- 5850. School Library Problems. (3) F, Su.** Examination of current trends, problems, and research relating to school libraries and media centers.
- 5860. Mechanization of Library Operations. (3) S.** Survey and demonstration of machine applications in library operations. Prerequisites: Library Science 4760, 4770, 5600, or permission of the chairman of the department.
- 5900. Introduction to Library Research. (2) Su, S.** A study of the introductory methods of research in the field of Library Science. Prerequisites: Library Science 4750, 4760, 4770.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

LIFE SCIENCE

UNDERGRADUATE COURSES

- 1000. Life Science. (1-4-3)** A study of the fundamental processes and structures common to all living things. This course is prerequisite to all botany and zoology courses.
- 3000. Seminar in Environmental Biology. (0-2-1)** A discussion of contemporary problems in environmental biology and their solutions. Such topics as air pollution, waste reclamation will be discussed. Prerequisites: Nine semester hours in life science, botany and/or zoology.
- 3010. Environmental Biology. (3-0-3)** A study of the components of the physical and biological environment, the Ecology of Mankind, man's effect on the environment, the effect of the environment upon man, current problems and their possible solutions. Prerequisite: Life Science 1000.
- 3400. Methods of Teaching Biological Science in High School. (2-2-3)** A study of teaching techniques including the collection and use of materials for demonstrations and laboratory experiments.
- 4080. Internship in Environmental Biology. (Arr.-Arr.-12)** Twelve semester hours required for major in Environmental Biology. This course to be taken Pass-Fail, but not to count against the maximum of four courses in Pass-Fail option. Employment experience in one or more phases of environmental work for one semester in an agency or firm approved by the Division of Life Sciences. Prerequisite: At least eighty semester hours of work in Environmental Biology program and approval of the director of the Division of Life Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Population Biology. (2-2-3) S.** Methods of quantitative analysis of biological data at the population level. Prerequisites: Eighteen semester hours in life science, botany and/or zoology, including Botany 3361 or Zoology 3200. May be substituted for a three-semester-hour elective in botany or zoology in completing the requirements for a botany or zoology major.

MANAGEMENT

UNDERGRADUATE COURSES

- 1420. Business in Society. (3-0-3)** The business firm in the social and legal framework of society, its responsibility and contributions to society.
- 2010. Business Communications. (3-0-3)** Practice in formulation and communication of business information, oral and written. Prerequisite: Business Education 1110 or equivalent.
- 2300. Data Processing for Business. (3-0-3)** Modern information processing systems and equipment; includes electronic computers and punched card systems.
- 2310. Computer Programming for Business. (3-0-3)** Analysis of several high-level programming languages and software systems. Prerequisite: Management 2300 or Mathematics 2310 or permission of the instructor.
- 3010. Principles of Management. (3-0-3)** Organization fundamentals: objectives, functions, structure and operational procedure, interpersonal relationships, control and motivation systems, and communications.
- 3310. Data Processing Systems for Business. (3-0-3)** The structure and development of manual, mechanical, and electronic information handling systems. Prerequisite: Management 2310.
- 3320. Computer File Organization and Management Methods. (3-0-3)** The universal data base used with modern computer systems. Includes file organization, maintenance, retrieval, and security. Prerequisite: Management 2310.
- 3330. Real Time Business Systems. (3-0-3) F.** A study of the process of integrating the computer based, file-oriented business system into its operational environment. Prerequisite: Management 3320.
- 3450. Personnel Management. (3-0-3)** Objectives, functions, and organization of a typical personnel program. Prerequisite: Management 3010 or a major in recreation.
- 3460. Business Law. (3-0-3)** Introduction to law; contracts; agency and employment; commercial paper; personal property and bailments.
- 3470. Business Law. (3-0-3)** Sales; partnership and corporations; real property and leases; insurance; security devices; bankruptcy; wills and estates. Prerequisite: Management 3460.
- 3700. Principles of Finance. (3-0-3)** Survey of the private and public sector of finance. Discussion of basic principles for financing business. Study of financial institutions. Prerequisite: Economics 2802.
- 3710. Business Financial Management. (3-0-3)** Methods of financing large and small corporations. The corporation, investor and society considered. Prerequisites: Management 3700 and Accounting 2020.
- 3720. Investments. (3-0-3) F.** Study of the mechanics of investment analysis. Selection of securities for portfolios with emphasis on personal investing. Prerequisites: Management 3700 and Accounting 2020.
- 3800. Introduction to Operations Research. (3-0-3) F.** An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Same as Accounting 3800. Prerequisite: Mathematics 1290 or 1300. Offered in Accounting, Management, and Marketing. A student may take the course for credit in only one of the departments.
- 3810. Business Statistics I. (3-0-3)** Provides a working knowledge of the statistical tools used in analyzing business problems. Prerequisite: Mathematics 2110, or permission of the instructor.

- 3820. Business Statistics II. (3-0-3) S.** Extension of the range of topics covered in Business Statistics I. Prerequisite: Management 3810.
- 3830. Business Report Writing. (3-0-3)** The organization and preparation of research-oriented reports used in business and technical communication. Prerequisite: Junior standing or permission of chairman of the department.
- 3900. Risk and Insurance. (3-0-3) S.** Risks to which man and property are subject, including life, property, and liability insurance. Prerequisites: Management 3700 and 3810 or permission of the instructor.
- 4200. Security Analysis and Portfolio Management. (3-0-3) S.** A case problem approach — including investment policies, practices and analysis of direct and indirect investments. Prerequisites: Management 3710, 3720, 3810.
- 4300. Data Processing Laboratory. (Arr.-Arr.-3)** Processing of information by using punched card equipment and the computer. Individual projects. Prerequisite: Management 2300.
- 4340. Operations Management. (3-0-3) F, S.** Management of manufacturing enterprises. Includes operations research techniques, plant locations, layout, and services. Prerequisites: Management 3010, 3810 or permission of the instructor.
- 4350. Methods Analysis. (3-0-3)** Study of the procedure and techniques involved in methods analysis. Prerequisite: Management 4340 or permission of the instructor.
- 4360. Managerial Decision Making. (3-0-3)** A study of administrative processes under conditions of uncertainty, integrating analysis and policy determination. Prerequisite: Management 3010, 3810, and senior standing.
- 4370. Job Evaluation. (3-0-3) S.** Analysis of the methods and techniques used in evaluating jobs. Prerequisites: Management 3010 and 3450.
- 4380. Labor Law. (3-0-3) F.** An analysis of the principles of American labor law; administrative board decisions; major state and Federal legislation. Prerequisite: Management 3470 or permission of the instructor.
- 4390. Real Estate. (3-0-3) S.** A study of theory and practice in real estate, with social and economic implications. Prerequisite: Management 3470.
- 4450. Collective Bargaining. (3-0-3) S.** Deals with the role played by management and labor representatives in the collective bargaining process. Prerequisites: Management 3010, 3460, 4380 or permission of instructor.
- 4610. Management of Data Processing. (3-0-3) S.** Planning, controlling, evaluating, budgeting for, and protecting the data processing functions, equipment, and personnel. Prerequisite: Management 3310 or permission of the instructor.
- 4730. Internship in Management. (Arr.-Arr.-3)** Employment experience in a phase of management for one semester in a firm approved by the chairman of the department. Prerequisites: Permission of the chairman of the department and acceptance of the student by a business firm on the basis of the student's application.
- 4740. Independent Study. (Arr.-Arr.-3)** Individual study programs under direction of the head of the department. Prerequisites: Senior standing and permission of chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Case Problems in Business Law. (3-0-3) S, Su.** Case problems approach to the various topics in the field of business law. Prerequisite: Management 3470 or the equivalent.
- 4800. Budgeting. (3-0-3) F.** Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Same as Ac-

counting 4800. Prerequisite: Accounting 2020. Offered in Accounting and Management. A student may take the course for credit in only one of the departments.

- 4830. Current Problems in Finance. (3-0-3)** A survey of current literature in finance and business with a seminar approach in discussing present problems, topics, and developments. Prerequisite: Management 3700.
- 4840. Commercial Bank Management. (3-0-3)** The organization and management of commercial banks; function, departments, personnel, policies. Prerequisites: Accounting 2010 and Economics 2802.
- 4900. CDP Problems. (3-0-3) F.** Study and review of the areas covered by the Certificate in Data Processing (CDP) Examination — equipment, programming and software, principles of management, quantitative methods, and systems analysis and design. Prerequisite: Permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5160. Contemporary Issues in Management. (3) Su.** Current problems in the areas of management. For teachers of business subjects having little or no management background.
- 5310. Communication Analysis. (3) S.** Analysis of the functions, planning, psychology, and the organization of selected types of written and oral business communications.
- 5320. Management Information Systems. (3) F.** The accumulation, processing, analysis, and utilization of data pertinent to the operation of the business firm. Prerequisite: Management 2300.
- 5330. Operations Management. (3) F.** An examination of operating problems from the standpoint of the product executive. Prerequisite: Management 3010.
- 5340. Foundations of Business Enterprise. (3) S.** The historical development of business enterprises — the social and economic role of the executive. The evolution of the business organizations and practices and their relationship to society.
- 5630. Manpower Management. (3) F.** A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management.
- 5640. Financial Management. (3) F.** A framework for determining efficient allocation of resources within the firm. Methods of economic analysis to relate the functional discipline of managerial finance — techniques for forecasting financial requirements under uncertainty, problems of income determination, long-term commitments to uncertain payoff vectors, internal and external capital rationing, and problems of identifying capital supply functions. Prerequisite: Management 3700; 3710 also suggested.
- 5820. Seminar in Organizational Theory. (3) S.** Value systems underlying management thought. The behavioral sciences as they pertain to organization behavior and practice. Prerequisites: Management 3010, and admission to candidacy.
- 5830. Seminar in Business Finance. (3) S.** A macro approach; the student is responsible for integrating macro economic and financial information. Includes interviewing a financial decision maker. Prerequisite: Management 5640.
- 5890. Administrative Policy. (3) S.** Top management functioning. Emphasis is on integration of functions. Case studies, special reports, and seminar discussions of top management problems. Prerequisites: At least twelve semester hours of MBA graduate courses and admission to candidacy.

- 5900. Business Research Methods. (2) F.** Business research methodology including the meaning of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. May be taken for credit in only one of the departments.
- 5950. Thesis. (3 to 6)** Developing the method of attack and executing a formal research study in the area of management concern. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) F, S.** The study of a problem in the administrative management area in cooperation with an assigned instructor in a general or specific area. *Note:* A maximum of nine semester hours may be earned in combination of 5990 and 5950.

MARKETING

UNDERGRADUATE COURSES

- 3470. Marketing in Business and Society. (3-0-3)** Marketing channels; marketing functions and institutions; methods in marketing agricultural products, raw materials and manufactured goods. Prerequisite: Economics 2802.
- 3480. Sales Communications. (3-0-3)** Personal marketing communications: assessing buyers' needs, persuasion, and student role-playing in simulated sales presentations.
- 3490. Marketing Middlemen and Channels. (3-0-3)** Analysis of the roles of middlemen in retail, industrial and other wholesale levels in the marketing channel system, with special attention to the management of channel flows of goods, ownership, and financing. Prerequisites: Marketing 3470 and Accounting 2010.
- 3500. Principles of Advertising. (3-0-3)** Social and economic aspects of advertising; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; slogans; campaigns. Prerequisite: Marketing 3470 or permission of instructor.
- 3720. The Behavior of Buying. (3-0-3)** The buying process at the levels of ultimate consumer, intermediate reseller and industrial user; psychological, sociological and economic foundations of buying behavior. Prerequisite: Marketing 3470.
- 3800. Introduction to Operations Research. (3-0-3) F.** An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Prerequisite: Mathematics 1290 or 1300. Offered in Accounting, Management, and Marketing. A student may take the course for credit in only one of the departments.
- 4490. International Marketing. (3-0-3) F.** An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations. Prerequisite: Marketing 3470.
- 4730. Internship in Marketing. (Arr.-Arr.-1-6)** Employment experience in some phase of marketing for one semester, in a firm approved by the chairman of the department. Prerequisite: Permission of the chairman of the department.
- 4740. Independent Study. (Arr.-Arr.-1-6)** Intensive investigation of a particular area in marketing, determined in joint consultation with appropriate instructor. Prerequisites: Approval by the chairman of the department and cooperating instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Physical Distribution Management. (3-0-3) S.** The study of integrated distribution systems, reflecting the transportation principles, economic analysis and marketing management considerations required to effect physical flows of goods from production points through market channel networks to purchaser destinations. Prerequisites: Marketing 3470 and Management 3010.
- 4780. Advertising Management. (3-0-3) F, S.** Application of the management functions to advertising. Prerequisites: Management 3010 and Marketing 3500.
- 4860. Marketing Research. (3-0-3)** Nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report and follow-up. Problems. Prerequisites: Marketing 3470 and Management 3810 or its equivalent.
- 4870. Marketing Management Strategy. (3-0-3)** Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Prerequisites: Accounting 2020, Marketing 3470 and Management 3010.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5130. Contemporary Issues in Marketing. (3) Su.** Current issues involved in delivery of a standard of living. For teachers of business subjects having little or no marketing background.
- 5350. Product Development and Brand Management. (3) S.** A study of the process of product planning and development as related to venture management. Prerequisite: Marketing 3470.
- 5610. Marketing Management. (3) F.** The techniques of management as applied to the functional areas of marketing. Both quantitative and behavioral tools are used. Prerequisite: Marketing 3470.
- 5650. Promotion Management. (3) S.** A study of consumer behavior and demand stimulation with emphasis in verbal and non-verbal communication theory. Prerequisite: Marketing 3470.
- 5810. Seminar in Marketing Thought. (3) S.** The development of marketing theory. The progress of the discipline of marketing toward becoming a science is examined. Past and present writings of marketing scholars are studied and reported. Prerequisite: Marketing 3470.
- 5900. Business Research Methods. (2) F.** Business research methodology including the meanings of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. May be taken for credit in only one of the departments.
- 5950. Thesis. (3 to 6)** The development of the method of attack and the execution of a formal research study in the area of marketing. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) F, S.** The study of a problem within the marketing business area in cooperation with an assigned instructor in a general or specific area of marketing. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MATHEMATICS

In planning student programs it is important to check the course prerequisites including placement exam requirements as listed with the course descriptions below. "High school mathematics" as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics", "consumer mathematics", "shop mathematics", etc.

A tutoring service is available in the Department of Mathematics throughout the year for students who may need assistance in the undergraduate courses.

Courses in the Department of Mathematics are designed to serve the following purposes: (1) to contribute to the development of an informed citizenry; (2) to provide specific skills and knowledge of the discipline for those who plan to pursue careers in teaching mathematics or industry; and (3) to provide the background for graduate study.

For mathematics majors college-level work presupposes at least two years of algebra, one year of geometry, and one-half year of trigonometry in high school. Students without trigonometry will generally begin with Mathematics 1320, provided they have had at least one year of algebra and one year of geometry. However, such students are encouraged to take the Department of Mathematics placement test. Students with a background of three or more units of high school mathematics including trigonometry are required to take the Department of Mathematics placement test before enrolling in Mathematics 1320.

UNDERGRADUATE COURSES

- 1220. Numerals and Numbers I. (3-0-3)** A study of the real number system and related topics. Restricted to students in the curriculum for elementary school teachers. Placement by examination. Credit is not given for both Mathematics 1220 and 2220.
- 1250. Elementary Mathematics and Applications. (4-0-4)** Topics to be covered will include the metric system, mathematics of finance, elementary probability, the design and analysis of models, using descriptive statistics.
- 1290. Algebra. (5-0-5)** Fundamental concepts of algebra. Credit is not given for both Mathematics 1290 and 1300.
- 1300. Algebra. (3-0-3)** Concepts taught in Mathematics 1290 from a more advanced point of view. Credit is not given for both Mathematics 1290 and 1300. Prerequisite: Satisfactory score on placement exam.
- 1310. College Trigonometry. (2-0-2)** Basic concepts of right triangle trigonometry with applications. Prerequisite: Two years of high school mathematics.
- 1320. Elementary Functions and Analytic Geometry. (5-0-5)** Algebraic and transcendental functions and their graphs. Vectors in Euclidean Space, parametric and polar representations. Prerequisite: Satisfactory score on placement exam.
- 1340. Analytic Geometry. (3-0-3)** Coordinate systems, conic sections, polar and parametric forms. Credit is not given for students who have credit in Mathematics 1320. Prerequisite: Satisfactory score on placement exam.
- 2110. Mathematical Analysis. (3-0-3)** Polynomial calculus, including derivatives and integrals of algebraic functions, with applications. Prerequisites: Mathematics 1290 or 1300 or satisfactory placement score.
- 2120. Finite Mathematics. (3-0-3)** Elementary set theory, probability, and linear algebra. Applications to business and social science. Prerequisites: Mathematics 1290 or 1300 or satisfactory placement score.
- 2220. Numerals and Numbers II. (2-0-2)** A study of the real number system and related topics. Restricted to students in the curriculum for elementary or junior high school teachers. Placement by examination. Credit is not given for both Mathematics 2220 and 1220.
- 2310. Computer Programming. (2-2-3)** The application of procedure-oriented computer lan-

guages (FORTRAN, SNOBOL) to both numeric and non-numeric algorithms. Not open to freshmen.

- 2320. Introduction to Computer Programming. (1-0-1) F.** Computer programming in BASIC. Not open to students with credit for a college level course in computer programming.
- 2340. Analytic Geometry and Calculus. (3-0-3) S.** A review of analytic geometry. The calculus of polynomials with special emphasis on applications. Prerequisite: Mathematics 1320 or 1340. No credit for graduation if student has credit for Mathematics 2351 or its equivalent. Not open for students enrolled in a curriculum requiring Mathematics 2351.
- 2351, 2352, 2353. Calculus. (4-0-4; 4-0-4; 3-0-3)** The study of differential and integral calculus with applications, vector analysis, partial differentiation, multiple integration, and infinite series. Prerequisites: Mathematics 1320 or 1310 and 1340, or satisfactory score on the placement exam. To be taken in sequence.
- 2550. Matrix Algebra. (2-0-2)** The study of linear algebra with special emphasis on applications. Prerequisite: Mathematics 1300 or its equivalent.
- 2670. Computational Techniques. (2-0-2)** Computational models and problem solving, programming techniques. Prerequisite: Mathematics 2310.
- 3190. Algebra and Geometry I. (2-2-3)** The study, organization and structure of algebraic and geometric models. Restricted to students in the curriculum for elementary or junior high school teachers. Prerequisite: Mathematics 1220 or 2220 or by placement examination.
- 3200. Teaching Elementary Mathematics I. (1-2-2)** Methods and materials for teaching mathematics in the elementary school with a special emphasis on grades K-3. Open only to prospective elementary school teachers. Prerequisites: Mathematics 3190, Elementary Education 2320 or concurrently with Elementary Education 3240. Credit cannot be received for both 3200 and 3210.
- 3210. Teaching Elementary Mathematics II. (1-2-2)** Methods and materials for teaching mathematics in the elementary school with a special emphasis on grades 4-6. Open only to prospective elementary school teachers. Prerequisites: Mathematics 3190, Elementary Education 2320 or concurrently with Elementary Education 3240. Credit cannot be received for both 3200 and 3210.
- 3271, 3272. College Geometry. (3-0-3 each course)** The study of geometry including a review of elementary geometry, Euclidean, non-Euclidean, and transformational geometries. Prerequisite: Mathematics 2351. To be taken in sequence.
- 3400. Teaching Secondary Mathematics. (3-2-4)** Methods and materials for teaching mathematics in grades 7-12. Prerequisites: Educational Psychology 3320 and Mathematics 2352, 3271, 3531; or permission of the chairman of the department.
- 3501. Differential Equations I. (3-0-3) F, S.** Formal solutions of ordinary differential equations: a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications. Prerequisite: Mathematics 2353.
- 3502. Differential Equations II. (3-0-3) S.** Systems of differential equations, series solutions, approximations to solutions. Laplace Transformations, partial differential equations, boundary value problems. Prerequisite: Mathematics 3501.
- 3531, 3532. Abstract Algebra I and II. (4-0-4 each course)** An introduction to abstract algebra including: operations and relations, mappings, groups, rings, and fields. Linear algebra is emphasized in the second course. Prerequisite: Mathematics 2352. To be taken in sequence.
- 3570. Numerical Calculus. (3-0-3) S.** Construction of algorithms for interpolation, quadrature, solution of equations and systems, solution of ordinary differential equations. Prerequisites: Mathematics 2310 and 2353.
- 3670. Computers and Programming. (2-2-3) F.** Computer structure, data representation, in-

struction sets, semantics and syntax of assembly language programming, system macros, programmer macros, subroutines. Prerequisite: Mathematics 2310.

- 3701, 3702. Probability and Statistics I and II. (3-0-3 each course)** Basic concepts of probability and statistics. Prerequisite: Mathematics 2352 to be taken in sequence. 3702 requires 2310 or 2320 or permission of the chairman of the department.
- 3770. Combinatorial Computing. (3-0-3)** Enumeration and counting — generating functions and recurrence relations; graph theory — trees, circuits, cutsets, transport networks; computational aspects of combinatorics. Prerequisites: Mathematics 2310 and 3531.
- 4080. Internship in Computational Mathematics. (Arr.-Arr.-12)** Employment experience in computational mathematics for one semester, in an approved firm or agency. Prerequisite: Permission of the Chairman of the Department of Mathematics and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Linear Algebra. (3-0-3) S, Su.** Vector spaces, linear transformations, and dual spaces, invariant direct sum decompositions, Jordan form, inner product spaces. Prerequisite: Mathematics 3532 or permission of the chairman of the department.
- 4780. An Introduction to Differential Geometry. (3-0-3) F, Su.** The Euclidean space-functions, transformations, differential fields and forms, and the study of curves in Euclidean space. Prerequisite: Mathematics 2353.
- 4820. Algebra and Geometry II. (2-2-3) F, Su.** The study of algebraic structure and informal geometry in elementary mathematics. Prerequisites: Enrollment in the curriculum for elementary teachers. Mathematics 3190; or permission of the chairman of the department.
- 4850. New Units in High School Mathematics. (3-0-3) S, Su.** Investigation of basic mathematical concepts in selected new programs in high school mathematics. Prerequisites: Mathematics 2352, 2550, 3271, 3400, 3531; concurrent enrollment in Mathematics 3400 is permitted by permission of the instructor.
- 4861, 4862. Advanced Calculus. (3-3-3 each course) 4861 F, S.; 4862 S, Su.** A study of limits of functions, continuity, the convergence of sequences and series of constants and functions, metric spaces, integration and measure. Prerequisite: Mathematics 2353 to be taken in sequence.
- 4900. History of Mathematics. (3-0-3) Su.** The Ancient Orient. The period of Ancient Greece, The Hellenistic period. Seventeenth to Nineteenth Century A.D. The beginnings of Modern Mathematics. Prerequisite: Mathematics 2351 or permission of the chairman of the department.
- 4910. Number Theory. (3-0-3) Su.** Divisibility, primes, congruences, solution of congruences, power residues, quadratic reciprocity, numerical functions, diophantine equations. Prerequisite: Mathematics 3531 or permission of the chairman of the department.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5040. Digital Computer Techniques. (3) F, Su.** Programming techniques in the application of procedure-oriented languages to numeric and non-numeric algorithms. Not open to student with credit in Mathematics 2310 or its equivalent.
- 5050. Numerical Analysis. (4) S, Su.** Rounding errors, difference equations, solutions of equations and systems of equations, interpolations, numerical differentiation. Prerequisites: Mathematics 2310 or 5040; and Mathematics 3500.

- 5080. Structure of Programming Languages. (3) S.** The structure and syntax of ALGOL. Selected topics in computer science. Prerequisite: Mathematics 2310 or 5040 or permission of the chairman of the department.
- 5101, 5102. Abstract Algebra. (4 each course) 5101-F, 5102-S.** Groups, Rings, Fields, Galois Theory. Prerequisite: Mathematics 3532 or permission of the chairman of the department. To be taken in sequence.
- 5151. Probability. (4) F.** Elementary and general probability spaces. Random variables, multivariate distributions and the algebra of expectations. Prerequisite: Mathematics 3701.
- 5152. Statistics. (4) S.** Random sampling, the law of large numbers, confidence intervals, regression, sampling from a normal population and testing hypotheses. Prerequisite: Mathematics 5151 or permission of the chairman of the department.
- 5200. Higher Geometry. (4) A** selection of topics from transformation geometries. Prerequisite: Mathematics 3532 or permission of the chairman of the department.
- 5220. Topology. (4) F.** Metric spaces. Topological spaces. Connectedness. Compactness. Prerequisite: Mathematics 4861 or permission of the chairman of the department.
- 5225. Topics in Geometry and Topology. (4) S.** Topics selected from advanced areas in geometry and topology including homology theory; classical theory of curves and surfaces; non-Euclidean geometries. Prerequisite: Permission of the chairman of the department. May be repeated for credit.
- 5301, 5302. Real Variables. (4 each course) 5301-S, 5302-Su.** Set theory. Cardinal numbers. Real numbers. Measure theory. Lebesgue theory. Prerequisite: Mathematics 4862 or permission of the chairman of the department. To be taken in sequence.
- 5330. Complex Variables. (4) Su.** Complex numbers, analytic functions, conformal mappings, complex integrations. Prerequisite: Mathematics 4862 or permission of the chairman of the department.
- 5335. Topics in Analysis. (4) (Omitted 1974-75)** Topics selected from advanced areas in analysis including the theory of functions of a complex variable, measure spaces, functional analysis. Prerequisite: Permission of the chairman of the department. May be repeated for credit.
- 5400. The Teaching of Mathematics in Grades K-6. (3) F, Su.** The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades K through six. Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 4820 or permission of the chairman of the department.
- 5410. Problems in Teaching Mathematics in Grades 7-9. (3) S, Su.** The techniques, methods, and materials used in teaching mathematics in grades seven, eight and nine. Prerequisite: Experience teaching in grades six through twelve or permission of the chairman of the department.
- 5530. Statistical and Computational Techniques. (3) Su.** Statistical methods including tests of hypotheses. Computation techniques and computer programming using FORTRAN. Not open to students with a major in mathematics.
- 5700. Problems in Teaching Mathematics in Grades 10-12. (3) F, Su.** Study of problems which arise in teaching secondary mathematics, research in mathematics education; assigned reading reports. Prerequisite: Experience teaching in grades six through twelve or permission of the chairman of the department. May be repeated once for credit.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MUSIC

AUDITIONS

All new undergraduate students planning to elect a major in music are required to demonstrate sufficient ability in a performing area either in person or by tape recording in advance of enrollment during the enrollment period. All transfer students should take the advisory-orientation examination in music theory. For advisement see the Chairman of the Department of Music. Auditions are also required for non-majors desiring the following courses: 0010-0070 and 5510-5570.

STUDIES IN PERFORMANCE AND COMPOSITION

In the major applied field, at least several years of study prior to college entrance are required. Private and class instruction are offered in all areas of performance, including composition (cf. listings). In the case of organ, prior study in piano is sufficient for acceptance.

Applied music courses yield variable credit, depending upon the curriculum elected by the student with a major in music. For the major in music education one semester hour of credit of secondary applied music shall be given for one hour of individual and/or class instruction per week and one-half hour of daily practice; for the primary applied in the music education curriculum two semester hours of credit shall be given for one hour of individual and/or class instruction per week and one hour of daily practice; or one semester hour of credit shall be given for one-half hour of individual and/or class instruction per week and one hour of daily practice. Generally students are expected to complete the minimum requirement over a period of seven semesters. For other majors in other Bachelor of Music degree curricula the student may register for up to four semester hours of credit for one hour of individual and/or class instruction and two hours of daily practice. Courses in composition are also similar in plan.

In a summer term the normal applied credit for a given program should be reduced by one-half, except cases where the normal applied credit is one semester hour. Additional applied credit in the summer term may be taken only with the permission of the principal applied instructor.

Courses in any applied subject may be repeated for additional credit; however, credit earned in excess of that required for the particular curriculum which the student is pursuing may not be used to satisfy the minimum applied music requirements of that program. Such credit shall be considered as elective.

The student's progress in his principal applied subject shall be evaluated each year by the faculty of the department in which he is enrolled. At the conclusion of the fourth semester of applied music, all students will be required to take a junior standing examination. A student may not be considered a junior in applied music nor may he present a junior or senior recital without passing this examination.

Course credit in applied music taken by music majors and minors beyond four semesters may be counted for upper division credit with the approval of the chairman of the department.

CREDIT ORGANIZATIONS IN MUSIC

Elementary education majors may elect a maximum of three semester hours of credit in choral ensembles. Other non-music majors may earn no more than four semester hours of credit toward graduation in chorus, orchestra, or band; however, music majors and minors may apply a maximum of six semester hours of credit toward graduation for such ensemble courses taken.

Courses in ensemble taken by music majors and minors beyond four semesters may be counted for upper division credit with the approval of the chairman of the department.

No more than two semester hours of credit may be earned in a single semester regardless of the number of organizations in which the student participates.

The music major is encouraged to participate in at least one ensemble during each semester of residence.

Cecilian Singers

Open to all qualified university women. Study and performance of all types of literature, from classic to popular.

Concert Band

The concert band functions as a musical unit for study and performances of all types of band literature. Membership is open to all students.

Concert Choir

A select ensemble of approximately 60 men and women. Open to all students. A wide variety of choral literature is performed.

Marching Band

The marching band performs during the football season for all home games and usually takes one out-of-town trip. Membership is open to all students.

Mixed Chorus

Open to all qualified singers. The Chorus studies and performs many types of choral literature. Some opportunity is provided for student conductors to improve their techniques with this ensemble.

Oratorio Chorus

One day a week the Concert Choir and Mixed Chorus form the nucleus of the Oratorio Chorus for the study and performance of cantatas, oratorios, Masses, and other major choral works.

Pep Bands

Three pep bands perform alternately at all home basketball games. Personnel are selected from the Symphonic Winds and Concert Band.

Stage Band

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held two evenings each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

String Orchestra

An organization for string players interested in the study and public performance of literature for the string orchestra. Membership is open to qualified players.

Symphony Orchestra

The orchestra is open to all student string, wind, and percussion players. Mature performers from within the university and community are eligible for membership. The orchestra presents regular programs on campus of representative works from symphonic literature. In addition, the orchestra participates in certain choral and operatic productions. Membership is selected by audition. Many instruments are available for use of the personnel.

Symphonic Winds

A select 40 piece wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

NON-CREDIT MUSICAL ORGANIZATIONS

Chamber Groups in Instrumental Music

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of players in the standard literature.

Chamber Singers

An ensemble of mixed voices for the study and performance of vocal chamber music dating from 1500 to the present. Audition required.

Collegium Musicum

A group organized for the purpose of reading, study, and performance of seldom-heard works. Vocal and instrumental forces, either separate or at times in combination, are employed.

RECITALS

All students except freshmen are required to appear (each year) in the series of student recitals in order to gain experience in musical performance.

Majors in the general music option and instrumental principals in the instrumental option must achieve junior standing in their principals applied area with a junior and senior recital being optional. Vocal and keyboard principals in the music education major are required to present junior and senior recitals.

Students with an option in performance in the Bachelor of Music degree program shall present a half recital in the junior year and a full recital in the senior year. Further, the performance major shall be required to perform a minimum of four times on student recitals in addition to presenting a junior and senior recital. The student recital requirement must be completed before the semester in which the senior recital is given. Students with a major in either Music Theory-Composition or Music History-Literature shall present appropriate projects in lieu of the junior and senior recitals.

MUSIC

UNDERGRADUATE COURSES

Auditions are required for initial placement in the following music courses: 0010-0070.

0010.* Voice. (Arr.-Arr.-1 or 2 or 4)

0020.* Flute. (Arr.-Arr.-1 or 2 or 4)

0021.* Oboe. (Arr.-Arr.-1 or 2 or 4)

0022.* Clarinet. (Arr.-Arr.-1 or 2 or 4)

0023.* Bassoon. (Arr.-Arr.-1 or 2 or 4)

0024.* Saxophone. (Arr.-Arr.-1 or 2 or 4)

0030.* Trumpet. (Arr.-Arr.-1 or 2 or 4)

0031.* Horn. (Arr.-Arr.-1 or 2 or 4)

0032.* Trombone. (Arr.-Arr.-1 or 2 or 4)

0033.* Baritone. (Arr.-Arr.-1 or 2 or 4)

0034.* Tuba. (Arr.-Arr.-1 or 2 or 4)

- 0040.* Percussion. (Arr.-Arr.-1 or 2 or 4)**
- 0050.* Violin. (Arr.-Arr.- 1 or 2 or 4)**
- 0051.* Viola. (Arr.-Arr.-1 or 2 or 4)**
- 0052.* Violoncello. (Arr.-Arr.-1 or 2 or 4)**
- 0053.* String Bass. (Arr.-Arr.-1 or 2 or 4)**
- 0060.* Piano. (Arr.-Arr.-1 or 2 or 4)**
- 0061.* Organ. (Arr.-Arr.- 1 or 2 or 4)**
- 0062.* Harpsichord. (Arr.-Arr.-1 or 2 or 4)**
- 0070.* Composition. (Arr.-Arr.-1 or 2 or 4)**
- 0100. Ensemble, Band. (0-4-1)** Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.

* May be repeated for credit until requirements are met. A student may receive one, two, or four semester hours of credit depending on the degree program, i.e., B.S. in Ed. Secondary applied-1 hr.; B.M.-Mus. Ed. option-1 or 2 hrs.; B.M.-performance option-4 hrs.

- 0110. Ensemble, Orchestra. (0-4-1)** Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.
- 0120. Ensemble, Jazz. (0-4-1)** Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation. Prerequisite: Permission of instructor.
- 0300. Ensemble, Chorus. (0-4-1)** Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.
- 0600. Chamber Ensemble. (Arr.-Arr.-1)** The study and performance of ensemble literature for vocal, piano and instrumental groups. Prerequisite: Permission of the instructor.
- 1103. Recital. (No credit.)**
- 1136. Class Instruction in Voice. (0-4-2)** F, S. Beginning vocal instruction for all not assigned to studio lessons. (Audition not required.)
- 1137. Class Instruction in Voice. (0-4-1)** Su. Beginning vocal instruction for all not assigned to studio lessons (audition not required). May be taken twice for credit. Students receiving A or B grades in the course may complete the vocal requirement by taking Music 2136.
- 1201. Beginning Class Instruction in Piano. (0-2-1)** A course for students who have had no music reading experience. No audition necessary. May be repeated once for credit. Not open to music majors.
- 1203. Basic Functional Skills in Piano. (0-2-1)** A course for music majors and minors who have had little or no previous piano study. No audition necessary.
- 1204. Basic Functional Skills in Piano. (0-2-1)** Prerequisite: Music 1203 or placement by audition during enrollment.
- 1301. Class Instruction in Strings. (0-2-1)** A study of beginning instrumental technique.
- 1302. Class Instruction in Clarinet, Flute and Saxophone. (0-2-1)** A study of beginning instrumental technique.
- 1303. Class Instruction in Oboe and Bassoon. (0-2-1)** A study of beginning instrumental technique.

- 1304. Class Instruction in Percussion. (0-2-1)** A study of beginning instrumental techniques.
- 1305. Class Instruction in Trumpet and French Horn. (0-2-1)** A study of beginning instrumental technique.
- 1306. Class Instruction in Trombone, Baritone and Tuba. (0-2-1)** A study of beginning instrumental technique.
- 1421. Basic Music for Classroom Teachers. (1-2-2)** A study of basic music theory. For elementary, junior high, and recreation majors.
- 1541, 1542. Music Theory and Literature. (3-0-3 each course)** F, S. The study of the fundamentals of music and melodic, harmonic and rhythmic materials and how they relate to musical structure; a study of selected examples from music literature is included. Must be taken in sequence.
- 1543, 1544. Aural Training in Music. (0-2-1 each course)** F, S. The study of notational practice and the development of aural perception through sight singing and dictation. Must be taken in sequence.
- 2136. Class Instruction in Voice. (0-2-1)** F, S. The second course of study for keyboard principles in the Vocal Option and others not qualified for private instruction. May be repeated three times. Prerequisite: Two hours credit in Music 1136 or Music 1137 with grades of A or B.
- 2141. Vocal Diction I. (1-1-1)** F. The study of vocal diction of English, Italian and Spanish song literature. Prerequisite: Two semesters of Applied Voice or equivalent.
- 2142. Vocal Diction II. (1-1-1)** S. The study of vocal diction of German and French song literature. Prerequisite: Two semesters of Applied Voice or equivalent.
- 2155. Choral Conducting. (2-0-2)** F. A course designed to make familiar the language and gestures for effective directing. Class serves as a laboratory chorus. Prerequisite: Music 1541, 1542; or two hours of Music 1136.
- 2201. Class Instruction in Piano. (0-2-1)** A course in recreational piano skills for students with previous piano study. May be repeated once for credit. Not open to music majors. Prerequisite: Two semesters of Music 1201 or placement by audition during enrollment.
- 2203. Functional Skills in Piano. (0-2-1)** A course for students with previous piano study. Prerequisite: Music 1204 or placement by audition during enrollment.
- 2204. Functional Skills in Piano. (0-2-1)** Prerequisite: Music 2203 or placement by audition during enrollment.
- 2205. Keyboard Harmony and Improvisation. (0-2-1)** F. This course develops functional skills in harmonization of melodies and develops harmonic awareness through figured-bass realization. Prerequisite: Music 1543 or permission of the chairman of the department.
- 2206. Sight-reading and Transposition. (0-2-1)** S. This course develops functional skills in transposition of music written in vocal style in forms one to four parts, and in pianistic idiom, and develops sight reading skills in keyboard accompaniments and choral score. Prerequisite: Music 1543 or permission of the head of the department.
- 2360. Instrumental Conducting. (1-1-1)** F, Su. An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 1543.
- 2421. Fundamentals of Music. (3-0-3)** F. Continuation of Music 1421. Prerequisite: Music 1421. Required of elementary majors with an Area I or II concentration in music.
- 2422. Music Literature for Elementary Teachers. (2-0-2)** S. Study of major forms and styles of Western Music suitable for use in the elementary general music program. Prerequisite: Music 1421 or equivalent. Required of elementary majors with an Area I or II concentration in music.

- 2440. Laboratory in Music Education. (1-0-1) F, S.** Directed observations and individualized experiences in participation in all kinds of music learning situations at all grade levels.
- 2541. Music Theory. (2-0-2) F.** A continuation of the study of musical materials and how they relate to musical structure. Prerequisite: Music 1542.
- 2543. Aural Training in Music. (0-2-1) F.** A continuation of the study of notational practice and the development of aural perception. Prerequisite: Music 1544.
- 2560. Structural Analysis in Music. (3-0-3) F, S.** A study of the relationship between structure and content in a variety of traditional forms and genres. Prerequisite: Music 2541.
- 2561. The Role of the Black in Western Music. (2-0-2) F, S.** A course emphasizing the Black man's contributions, including jazz and folk music in Western Civilization. May be applied toward the humanities requirement.
- 2562. Introduction to Music Literature. (2-0-2)** A course intended to develop intelligent and pleasurable listening abilities. A wide range of musical forms and periods is covered. Not open to music majors or minors.
- 2580. History and Literature of Music. (2-0-2) F, S.** Development of music from the baroque through the classic period. Open only to music majors and minors. Prerequisite: Music 1542.
- 3120. Music Theatre Workshop. (0-4-2) F, S.** Music theatre involving staging, acting, costuming and singing. May be taken four times for credit. Prerequisite: Permission of the instructor.
- 3155. Choral Techniques and Materials. (1-1-1) S.** A course designed to develop a knowledge of style rehearsal techniques and materials for various vocal ensemble combinations. Class serves as a laboratory chorus. Prerequisite: Music 2155.
- 3201. Accompanying. (Arr.-Arr.-1)** Vocal and Instrumental. Accompanying techniques combined with practical application. Prerequisite: Permission of instructor.
- 3221. Piano Pedagogy. (3-0-3) F.** The basic skills and knowledge needed in teaching group and private piano. Prerequisite: Two years of applied piano or permission of instructor.
- 3360. Instrumental Conducting. (2-0-2) S.** An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 2360.
- 3400. Methods of Teaching Music in Secondary Schools. (3-0-3) F.** Instrumental methods and materials appropriate for junior and senior high school. Prerequisite: Music 2440. For music majors and minors.
- 3421. Music in Elementary Schools. (3-0-3)** A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Music 1421. For elementary education majors.
- 3423. Music in Elementary Schools. (3-0-3)** A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Music 1421. For elementary education majors with early childhood emphasis.
- 3439. Methods of Teaching Music in Elementary Schools. (3-0-3) F.** Objectives, methods, and materials of music education in elementary grades. Prerequisites: Music 2440 and admission to teacher education. For music majors and minors.
- 3481. Music in the Allied Arts. (3-0-3) S.** A study of the aesthetic experience emphasizing music, and its relationship to the arts. Open only to music majors and minors. Prerequisite: One course in philosophy and two courses in each of the following areas: art history and appreciation; English literature; history; music history and literature; and music theory.
- 3547. Orchestration. (3-0-3) F, Su.** Beginning practical experience in scoring for orchestra.

- 3561. History and Literature of Music. (3-0-3) F.** The development of music from the ancient times through the baroque. Not open to music majors or minors.
- 3562. History and Literature of Music. (3-0-3) Su, S.** The development of music from the classical period to the present. Not open to music majors or minors.
- 3563. Music in World Cultures: Western Folk and Traditional Music. (2-0-2) F.** A survey which includes African music south of the Sahara. May be applied toward the humanities requirement.
- 3564. Music in World Cultures: Near Eastern, Asian and Pacific. (2-0-2) S.** A survey of non-Western music cultures. May be applied toward the humanities requirement.
- 3571. History and Literature of Music (2-0-2) Su, F.** Development of music from ancient times through the Renaissance. Open only to music majors and minors. Prerequisite: Music 2580.
- 3572. History and Literature of Music. (2-0-2) S.** Development of music from the romantic period to the present. Open only to music majors and minors. Prerequisite: Music 2580.
- 4541. Sixteenth Century Counterpoint. (2-0-2) F.** A basic study of techniques in polyphonic literature. Includes the styles of Palestrina and the English Madrigalists. Prerequisite: Music 2541.
- 4542. Eighteenth Century Counterpoint. (2-0-2) S.** A basic study of contrapuntal harmonic practices, including inventions, canon, fugue, and forms based upon the chorale. Prerequisite: Music 2541.
- 4600. Independent Study. (Arr.-Arr.-1 to 3)** Independent pursuit of a study or research project. Outline of student's plan of work must be submitted to Chairman, Department of Music, for approval and instructor assignment. The course may be repeated to a maximum of six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Choral Arranging. (3-0-3) S.** A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations. Prerequisite: Three semesters of music theory.
- 4760. Vocal Pedagogy. (3-0-3) Alternate F.** beginning 1974. Writings of recognized authorities on the teaching of singing, coupled with observation and supervised teaching. Prerequisite: Four semesters of instruction in singing.
- 4770. English, Italian, and Spanish Song Literature. (2-0-2) Alternate F.** beginning 1973. The study of English, Italian, and Spanish Song Literature. Prerequisite: Music 2141 or permission of the instructor.
- 4780. French and German Song Literature. (2-0-2) Alternate S.** beginning 1973. The study of French and German Song Literature. Prerequisite: Music 2141 and 2142 or permission of the instructor.
- 4810. Symphonic Literature. (3-0-3) (Omitted 1974-75)** A survey of orchestral music from the Mannheim and Viennese schools through the Twentieth Century. Prerequisites: Music 3571 and Music 3572.
- 4820. Music in the Classic Era. (3-0-3) F.** A critical appraisal of music of the period, emphasizing distinctively classical features. Prerequisite: Music 3571 or 3572.
- 4830. Music in the Romantic Era. (3-0-3) S.** A critical appraisal of music of the period, emphasizing distinctively romantic features. Prerequisites: Music 3571 and 3572.
- 4840. Band Arranging. (3-0-3) S, Su.** A course in scoring and arranging materials for instrumental ensembles.

- 4850. Stage Band Arranging. (3-0-3) S.** A course dealing with the basic problems and techniques involved in arranging for a stage band. Prerequisite: Music 2543 or equivalent.
- 4860. Marching Band Procedure. (2-0-2) F.** Rudiments of marching band pageantry, and field maneuvers.
- 4870. Administration of Instrumental Organizations. (2-0-2) S, Su.** A study of administrative problems which apply particularly to the instrumental teacher.
- 4872. Advanced Orchestration. (3-0-3) F.** Advanced studies in orchestral scoring and arranging.
- 4880. Techniques for Developing and Training Stage and Dance Bands in the High School. (2-0-2) F.** A course dealing with basic problems in organization, development, and training of the high school stage and dance band. Prerequisites: Music 1302, 1305, or permission of the instructor.
- 4900. Church Music. (2-0-2) S.** A historical review of hymody, psalmody, and choral and keyboard literature in relation to current worship practices.
- 4910 (5400). Keyboard Literature of the Baroque and Classic Eras. (3) F.** A study of the literature of the stringed keyboard instruments from the virginalists through the Eighteenth Century.
- 4920 (5410). Keyboard Literature from the 1800's to the Present. (3) S.** A study of piano literature of selected Nineteenth and Twentieth Century composers.
- 4960. Seminar in the Problems of Music Education. (Arr.-Arr.-1 to 3) Su.** Special problems in music education planned on an individual basis.
- 4990. Workshop in Music. (Arr.-Arr.-1 to 3) Su.** Literature techniques, pedagogy, and/or style in various media. Content may vary from summer to summer. Provided a student does not repeat courses with same content, he may earn a maximum of four semester hours credit.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5160. Advanced Conducting and Performance Practices. (3) S, Su.** A study of style (in instrumental and vocal ensemble music) as it pertains to problems of the conductor. Prerequisite: Music 3155 or 3360.
- 5170. Analytical Techniques. (3) F.** An investigation of structure, stylistic characteristics and compositional techniques. Prerequisite: Music 2560.
- 5200. Teaching Music Theory. (2) S.** Principles, techniques, content and materials for teaching music theory courses in the freshman and sophomore years of college.
- 5280. Aesthetics of Music. (3) (Omitted 1974-75)** A study of man's search for musical beauty: changing conceptions of beauty through various historical periods.
- 5360. Opera History and Literature. (3) Alternate S. beginning 1973.** A study of selected operas from 1600 to the present. Prerequisite: Music 3571 and 3572.
- 5450. Instrumental Pedagogy. (3) S, Su.** An advanced course designed to strengthen the knowledge, methods and techniques of the wind, string, and percussion instruments.

Auditions are required for initial placement in the following music courses: 5510-5570.

- 5510. Voice. (Arr.-Arr.-1 or 2)**

5520. Flute. (Arr.-Arr.-1 or 2)
5521. Oboe. (Arr.-Arr.-1 or 2)
5522. Clarinet. (Arr.-Arr.-1 or 2)
5523. Bassoon. (Arr.-Arr.-1 or 2)
5524. Saxophone. (Arr.-Arr.-1 or 2)
5530. Trumpet. (Arr.-Arr.-1 or 2)
5531. Horn. (Arr.-Arr.-1 or 2)
5532. Trombone. (Arr.-Arr.-1 or 2)
5533. Baritone. (Arr.-Arr.-1 or 2)
5534. Tuba. (Arr.-Arr.-1 or 2)
5540. Percussion. (Arr.-Arr.-1 or 2)
5550. Violin. (Arr.-Arr.-1 or 2)
5551. Viola. (Arr.-Arr.-1 or 2)
5552. Violoncello. (Arr.-Arr.-1 or 2)
5553. String Bass. (Arr.-Arr.-1 or 2)
5560. Piano. (Arr.-Arr.-1 or 2)
5561. Organ. (Arr.-Arr.-1 or 2)
5562. Harpsichord. (Arr.-Arr.-1 or 2)
5570. Composition. (Arr.-Arr.-1 or 2)
- 5621, 5622. Foundations and Principles of Music Education. (3 each course) 5621-F; 5622-S. Systematic treatment of the total music education program. Need not be taken in sequence.
- 5721, 5722. Class Piano Pedagogy and Internship. (3 each course) 5721-F; 5722-S. A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes. Prerequisite: Music 3221 or permission of the instructor.
5810. Music of the Twentieth Century. (3) (Omitted 1974-75) The chief musical developments in Western Europe and the Americas from 1900 to the present.
5840. Music in the Renaissance Era. (3) (Omitted 1974-75) A critical appraisal of music of the period, emphasizing distinctively Renaissance features.
5850. Music in the Baroque Era. (3) (Omitted 1974-75) A critical appraisal of the period, emphasizing distinctively Baroque features.
5880. Seminar in Music History. (3) Su, S. Intensive study of selected historical topics.
5900. Introduction to Research in Music. (2) F. An introduction to the various aspects of the musical discipline, intended to enable the student to think, research, and write intelligently about his field.
5950. Thesis. (3 to 6) *Note:* Maximum credit allowed in each course is six semester hours. A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
5990. Independent Study. (1 to 6) Student must submit outline of his plan of work to the Chairman of the Department of Music for approval and assignment to an instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950. Maximum credit allowed in each course is six semester hours.

PHILOSOPHY

Note: Philosophy 1800, Philosophy 1830 or Philosophy 3000 is recommended as the most appropriate choice for students who elect a single course in Philosophy. As introductory treatments of the techniques and issues of philosophic inquiry, Philosophy 1800 focuses attention on representative problems without reference to historical perspective, whereas Philosophy 1830 explores a range of problems in an historical context. While both these courses deal mainly with the traditional problems of philosophy, Philosophy 3000 examines various contemporary ideas and issues in a philosophical perspective. If a student anticipates the election of more than one of the history courses, it would be advisable to schedule them in the order of their historical sequence.

Note also that all philosophy courses numbered below 4000 count toward satisfying the Humanities Requirement.

UNDERGRADUATE COURSES

- 1800. Problems of Philosophy. (3-0-3)** An introduction to philosophic inquiry through analysis of selected problems: Knowledge, Value, Religion, and Alternative World Views.
- 1830. (2810). History of Philosophy: Ancient. (3-0-3)** An introductory historical approach to the nature of Man, God, the World, and Value: the pre-Socratics, Plato, and Aristotle.
- 1900. Logic. (3-0-3)** An introduction to the principles of sound reasoning: logic and language, deductive and formal logic, empirical scientific methodology.
- 2850. History of Philosophy: Medieval. (3-0-3) F.** An examination of the principal philosophers from Epicurus through St. Thomas Aquinas. Prerequisite: Philosophy 1800 or 1830.
- 2860. History of Philosophy: Modern. (3-0-3) S.** Philosophic thought from Galileo to Kant; the foundations of modern science and implications for religious, moral, and political theory. Prerequisite: Philosophy 1800 or 1830.
- 2900. Symbolic Logic. (3-0-3) F.** An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus. Prerequisite: Philosophy 1900 or permission of the instructor.
- 3000. Philosophy and Current Issues. (3-0-3)** Philosophical examination of some important contemporary ideas and current issues of life and society. Topics such as Man, Love, Nature, Science, Alienation, Justice, Revolution, War, and Peace.
- 3020. Ethics. (3-0-3) S.** Analysis and evaluation of principle theories and problems concerning Right, Good and validity of moral standards and moral conduct.
- 3040. Aesthetics. (3-0-3) F.** A critical examination of aesthetic experience and fine art: artistic creativity, the work of art, and criteria of judgment. Prerequisite: Philosophy 1800 or Philosophy 1830 or permission of the instructor.
- 3100. Nineteenth Century Philosophy. (3-0-3) F.** A study of the principal philosophers of the Nineteenth Century such as Hegel, Nietzsche, Kierkegaard, Mill and Marx. Prerequisite: Philosophy 1800 or 1830.
- 3150. American Philosophy. (3-0-3) F.** An examination of the principal American philosophers from Jonathan Edwards to Dewey and Whitehead. Prerequisite: Six semester hours in philosophy or permission of the instructor.
- 3300. Social and Political Philosophy. (3-0-3) S.** A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation. Prerequisite: Six semester hours in philosophy or permission of the instructor.
- 3800. Contemporary Philosophy. (3-0-3) S.** A study of some main Twentieth Century developments such as Existentialism, Phenomenology, Pragmatism, Positivism, and Analytic Philosophy. Prerequisite: Six semester hours in philosophy or permission of the instructor.

- 4100. Philosophy of Religion. (3-0-3) F.** A philosophical interpretation of religion, religious experience, and fundamental problems: God, evil, immortality, religious knowledge. Prerequisite: Six semester hours in philosophy, including Philosophy 1800 or permission of the instructor.
- 4150. Philosophy of History. (3-0-3) S.** A critical analysis and evaluation of theories proposed by philosophers in their attempts to specify the nature of history and historical inquiry. Prerequisite: Six semester hours in philosophy, including Philosophy 1800 and Philosophy 1830 or 2860 or permission of the instructor.
- 4200. Philosophy of Science. (3-0-3) F.** An analysis of the key assumptions and implications of modern science: form, hypothesis, verification, casualty, law, and methodology. Prerequisite: Six semester hours in philosophy (Philosophy 1900 or 2860 recommended) or permission of the instructor.
- 4300. Philosophy and Culture: Western. (3-0-3) F.** An analysis of the basic scientific, religious, and philosophical assumptions of Western civilization and its principal culture. Prerequisite: At least six semester hours in philosophy or permission of the instructor.
- 4310. Philosophy and Culture: Eastern. (3-0-3) S.** An analysis of the basic philosophical and religious assumptions of Eastern civilization: India, China, and Japan. Prerequisite: Philosophy 4300 or permission of the instructor.
- 4480. Seminar. (3-0-3) S.** Advanced study of selected problems, topics, or philosophers. Prerequisite: Nine semester hours in philosophy and permission of the instructor. May be taken twice for credit with permission of the chairman of the department.

PHYSICAL EDUCATION

Non-physical education majors may elect four semester hours of physical education service course credit toward graduation. Physical education majors and minors and recreation majors may have six semester hours of credit in physical education service courses. Physical education and recreation majors do not have the Pass-Fail option for one-semester-hour activity courses.

SERVICE COURSES

- 0010. Athletic Training. (5-0-1)** A practical experience for students in athletic first aid, rehabilitation, and safety. Prerequisite: Permission of the instructor.
- 0020. Baseball (Intercollegiate Team Participation). (5-0-1) S.**
- 0030. Basketball (Intercollegiate Team Participation). (5-0-1) S.**
- 0050. Soccer (Intercollegiate Team Participation). (5-0-1) F.**
- 0090. Football (Intercollegiate Team Participation). (5-0-1) F.**
- 0120. Golf (Intercollegiate Team Participation). (5-0-1) S.**
- 0130. Gymnastics (Intercollegiate Team Participation). (5-0-1) S.**
- 0140. Tennis (Intercollegiate Team Participation). (5-0-1) S.**
- 0150. Wrestling (Intercollegiate Team Participation). (5-0-1) S.**
- 0160. Cross Country and Track (Intercollegiate Team Participation) (5-0-1) F, S.**
- 0180. Swimming (Intercollegiate Team Participation). (5-0-1) S.**
- 1000. Physical Development. (0-2-1) F, S.**

- 1030. Basketball. (0-2-1)** Open to men only.
- 1050. Soccer. (0-2-1) F.** Open to men only.
- 1060 (M 1060; W 1750). Softball. (0-2-1) S, Su.**
- 1070. Touch Football. (0-2-1) F.** Open to men only.
- 1400 (M 1400; W 1860). Swimming (Beginning). (0-2-1)** For beginning swimmers only. Persons able to swim 45 feet should enroll in Physical Education 1410. Sections open to men only, women only, and coeducational.
- 1410 (M 1410; W 2860). Swimming (Intermediate). (0-2-1)**
- 1420. Senior Life Saving. (0-2-1)** Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
- 1430. Competitive Swimming and Diving. (0-2-1) F.** Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
- 1440. Scuba and Snorkel Diving. (0-2-1)** Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
- 1450. Water Polo. (0-2-1) F, S.** Open to men only. Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.
- 1460. Water Safety Instruction. (0-2-1)** Prerequisite: A student must have passed Physical Education 1420 or have a recently-earned Senior Life Saving Certificate issued by the American Red Cross.
- 1470 (W 3860). Swimming (Synchronized). (0-2-1) F, S.**
- 1480 (M 1670). Canoeing. (0-2-1)** Prerequisite: Demonstrate level of ability by passing a pre-test.
- 1600. Weight Training. (0-2-1)**
- 1610 (M 1100; W 1800). Archery. (0-2-1)**
- 1620 (M 1020) Orienteering. (0-2-1)**
- 1630 (M 1180). Casting and Angling. (0-2-1) S, Su.**
- 1640. Rifle and Pistol. (0-2-1)**
- 1650. Trap and Skeet. (0-2-1) Fee.**
- 1660 (M 1190; W 1820). Bowling. (0-2-1) Fee.**
- 1670 (M 1120; W 1830). Golf. (0-2-1)**
- 1680 (M 1170; W 1850). Stunts and Tumbling. (0-2-1) F, S.**
- 1681 (M 1130; W 1890). Gymnastics Apparatus. (0-2-1) F, S.**
- 1690 (M 1160; W 1940). Track and Field. (0-2-1) S, Su.** Required of all PEW majors.
- 1720. Basketball. (0-2-1) F, S.** Open to women only.
- 1730. Field Hockey. (0-2-1) F.** Open to women only.
- 1740. Soccer. (0-2-1) F.** Open to women only.
- 1760. Speedball. (0-2-1) F.** Open to women only.
- 1770 (M 1080; W 1770). Volleyball. (0-2-1)** Sections open to men only, women only, coeducational.
- 1810 (M 1110; W 1810). Badminton. (0-2-1)**

- 1820 (M 1620). Handball. (0-2-1)**
- 1840 (M 1150). Wrestling. (0-2-1) F, S.** Open to men only.
- 1870 (M 1140; W 1870). Tennis. (0-2-1)**
- 1880 (M 1660; W 1880). Fencing. (0-2-1)**
- 1900. Folk Dance. (0-2-1)**
- 1910. Modern Dance. (0-2-1)**
- 1920. Ballroom Dance. (0-2-1)**
- 1930. Square Dance. (0-2-1)**
- 2610. Archery (Advanced). (0-2-1)**
- 2660 (M 1790). Bowling (Advanced). (0-2-1) Fee.**
- 2670 (M 1720; W 2830). Golf (Advanced). (0-2-1)**
- 2810 (M 1710; W 2810). Badminton (Advanced). (0-2-1)**
- 2870 (M 1740) W 2870). Tennis (Advanced). (0-2-1)**
- 2900. Folk Dance (Advanced). (0-2-1)**
- 2910. Modern Dance (Advanced). (0-2-1)**
- 2920. Ballroom Dance (Advanced). (0-2-1)**
- 2930. Square Dance (Advanced). (0-2-1)**

NON-CREDIT INTERCOLLEGIATE SPORTS

- 0330. Early Basketball. (5-0-0) F.**
- 0430. Early Gymnastics. (5-0-0) F.**
- 0530. Early Wrestling. (5-0-0) F.**
- 0630. Early Swimming. (5-0-0) F.**
- 0730. Fall Golf. (5-0-0) F.**
- 0830. Fall Baseball. (5-0-0) F.**
- 0990. Spring Football. (5-0-0) S.**

UNDERGRADUATE PROFESSIONAL COURSES

- 1500 (M 1500; W 1510). Physical Education as a Profession. (2-0-2)** An introductory professional course which includes the general scope, purpose, history, growth and development, and career assessment of physical education.
- 1520. Theory of Motor Learning. (2-0-2) S, Su.** A study of the learning process with emphasis on learning of motor skills and recent research in motor learning.
- 1530. Basic Activities in Physical Education. (2-2-3)** Games, basic exercises, rhythms, movement education and elementary tumbling, vaulting and trampolining. For the elementary and secondary levels.

- 2000. Technique and Practice of Teaching Physical Education Activities. (2-2-3)** To learn techniques of teaching selected individual and team activities and to observe and participate in a practical teaching situation. Prerequisite: Sophomore standing and two semester hours of physical education activities at the 1000 level.
- 2220. Technique and Theory of Folk, Square, and Ballroom Dance I. (0-4-2)** Basic techniques and skills in folk, square and ballroom dance.
- 2230. Technique and Theory of Modern Dance I. (0-4-2)** May be used as partial fulfillment of the humanities requirement. A course which introduces, explores and applies the concept of movement as expression.
- 2240. Theory and Composition of Modern Dance. (0-4-2)** May be used as partial fulfillment of the humanities requirement. A course which includes creative exploration of movement incorporating floor patterns, non-locomotor and locomotor movement, and elementary rhythmic principles. Prerequisite: Physical Education 2230.
- 2320. Technique and Analysis of Stunts, Tumbling and Gymnastics. (0-4-2)** Participation in various phases of women's gymnastics and emphasis on analyses and uses of activities in teaching and recreation.
- 2370. Technique and Officiating Speedball, Field Hockey and Volleyball. (0-4-2)** The development of basic game skills, strategies and officiating techniques in speedball, field hockey and volleyball.
- 2380. Technique and Officiating Basketball and Flag Football. (0-4-2)** Su. S, The development of basic game skills, strategies and officiating techniques in basketball and flag football.
- 2410. Physical Education for Today's Elementary Children. (3-0-3)** An introductory course in elementary school physical education.
- 2440. Kinesiology. (4-0-4)** The study of basic human anatomy, muscle actions, and laws of physics as used in the performance of sport skills.
- 2450. Physical Education for Exceptional Individuals. (2-0-2)** An introduction to various conditions and activity programs suitable to the needs of exceptional individuals. Prerequisite: Physical Education 2440.
- 3130 (M 4330). Basic Care and Prevention of Athletic Injuries. (3-0-3)** Primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved.
- 3200. Methods of Teaching Dance. (3-0-3)** Materials and methods for teaching modern, folk, square and ballroom dance. Prerequisites: Physical Education 2220 and 2230.
- 3220. Technique and Theory of Folk, Square and Ballroom Dance II. (0-4-2)** F, Su. A course which presents advanced techniques and skills in folk, square, and ballroom dance. Prerequisite: Physical Education 2220.
- 3230 (W 3230 and 3240). Techniques and Theory of Modern Dance III. (0-4-2)** F. A course which places emphasis on intermediate and advanced dance techniques, problem-solving, improvisation and the application of the kinesthetic sense. Prerequisites: Physical Education 2230 and 2240.
- 3250 (W 3250 and 3260). Dance Composition/Production Workshop. (2-2-3)** S. The course acquaints students with elements of dance, its theatre, application and composition. The advanced student has opportunity to create works for performance and evaluation. Prerequisites: Physical Education 2230, 2240 or permission of the instructor.
- 3270. History and Philosophy of Dance. (3-0-3)** F. May be used as partial fulfillment of the humanities requirement. A survey of the history of dance from early civilization to present; dance in education, and the philosophic goals of dance.
- 3320. Technique, Theory and Coaching of Gymnastics. (0-4-2)** F. This course includes advanced skill development, teaching methods, unit planning, competition and values of gymnastics. Prerequisite: Physical Education 2320.

- 3330. Techniques, Theory and Coaching of Badminton and Tennis. (0-4-2) S.** A study of analyses of skills and the methods of teaching badminton and tennis. Prerequisites: Physical Education 1810 and 1870.
- 3340. Technique, Theory and Coaching Track and Field and Golf. (2-2-3) F.** This course includes further development of performance skills in golf and track and field, teaching methods specific to the sports activities and analysis of movement skills related to the sports. Prerequisites: Physical Education 1670 and 1690.
- 3350. Technique and Theory of Aquatics. (0-4-2) S.** A survey of aquatic activities. Emphasis will be placed on mechanical principles of swimming and diving, and methods of teaching aquatic activities. Prerequisite: Equivalency of Junior Life Saving or recommendation of instructor.
- 3370. Technique, Theory and Coaching Field Hockey and Basketball. (2-2-3)** Provides for the understanding of advanced techniques, skill analyses and progressions as applied to field hockey and basketball with further skill development in these areas. Prerequisites: Physical Education 2370, 2380.
- 3380. Technique, Theory and Coaching Softball and Volleyball. (2-2-3) S, Su.** Provides for the understanding of advanced techniques, skill analyses and progressions as applied to softball and volleyball with further skill development in these areas. Prerequisite: Physical Education 2370.
- 3390. Planning and Conducting Co-Curricular Programs in Physical Education (2-0-2)** This course will investigate all aspects of the extracurricular physical education program.
- 3400. Methods of Teaching Physical Education. (3-0-3)** Organization of health and physical education activities for various age levels, and methods of teaching health and physical education.
- 3401. Methods of Teaching Sports. (3-0-3)** A general overview of the techniques of the organization and presentation of sports in the physical education program. Prerequisite: Physical Education 1520; previous experience in team and individual sports is recommended.
- 3470. Basketball Coaching. (2-2-3)** Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.
- 3480. Football Coaching. (2-2-3)** Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; rules and strategy.
- 3490. Track and Field Coaching. (2-2-3) S, Su.** Fundamentals of track and field events. Organization of track meets. Study of rules and strategy.
- 3500. Baseball Coaching. (2-2-3)** Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations.
- 3550 (M 3600). Wrestling Coaching. (2-2-3) F.** Theory and application of wrestling maneuvers; rules; conditioning and training.
- 3580. Gymnastics Coaching. (2-2-3) S.** Fundamentals of heavy apparatus; rings, trampoline; free exercise; rules.
- 3600. Introduction to Elementary School Physical Education. (0-4-2)** Physical education as it relates to the total education of the elementary school child with emphasis on the developmental approach.
- 3610. Game Activities for Elementary Schools. (3-0-3) F, Su.** Body mechanics and games; emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object. Prerequisite: Physical Education 1530 or 2410 or 3600.
- 3620. Rhythmical Activities for Elementary Schools. (3-0-3)** Dance and creative rhythms; emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance. Prerequisite: Physical Education 1530 or 2410 or 3600.

- 3630. Tumbling and Apparatus Activities for Elementary Schools. (3-0-3)** A study of tumbling and apparatus in the elementary school curriculum. Spotting techniques in mat and apparatus work is stressed. Prerequisite: Physical Education 1530 or 2410 or 3600.
- 3640 (W 3430). Elementary School Physical Education Practicum. (1-4-3)** An overview of the total programs in the elementary school. Prerequisites: Physical Education 3620 and 3630.
- 3700. Psychological Foundations of Coaching. (2-0-2)** The course is designed to provide the prospective athletic coach with an understanding of the principles of psychology as they apply to coaching. Prerequisite: Psychology 2310.
- 3960. Aesthetics of the Dance. (3-0-3) S.** A study of dance as a created, performed, and perceived art with discussion of aesthetic principles as related to dance as an art experience. It may be used as partial fulfillment of the humanities requirement.
- 4310 (M 4310; W 4100). History and Principles of Physical Education. (3-0-3)**
- 4320 (M 4320; W 4110 and 4130). Organization, Administration and Supervision of Physical Education. (3-0-3)**
- 4340. Physiological Foundations of Coaching. (2-0-2)** The course is designed to provide the prospective athletic coach with an understanding of the physiological factors that affect human performance.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-Arr.-1, 2, 3 respectively) Note:** May be repeated; the maximum amount of credit which may be earned is six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Measurement and Evaluation in Physical Education. (3-0-3)** Selection and administration of physical measurements and written tests commonly used in physical education.
- 4770 (5400). Advanced Techniques of Athletic Training. (1-0-1) Su, S.** A course concerned with current trends in initiating, organizing, and conducting training programs.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5100. Supervision of Physical Education. (3) S.** Techniques of supervision; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.
- 5120. Application of Psychology to Physical Education. (2) S.** A study of psychological principles, laws of learning, and their application to physical education.
- 5140. Current Trends in the Teaching of Physical Education in the Elementary and Junior High School. (3) Su.** Materials, organization and program of physical education. Integration of physical education with general education.
- 5141. Movement Experiences for the Child. (2)** Presents the teacher with an opportunity to increase teaching skills, understanding and awareness of the importance of basic movement as a foundation for body control that will help the child later in life.
- 5150. Physical Education-An Aesthetic Approach. (2) Su.** Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures.

- 5190. Growth and Development Through Physical Education. (2) F.** Survey of growth and development of children and adolescents as these relate to curriculum planning for physical education.
- 5200. Course of Study Development in Physical Education. (3) S.** Principles and methods; different psychological and educational points of view; organizing a course of study, making units of instruction.
- 5210. Administration of Interschool Athletics. (2) S.** Organization and control of interschool athletics at the national, state, and local levels. Staff; programs, budget; health and safety; facilities.
- 5230. Physiology of Exercise. (4) S.** A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory, and muscular systems. Prerequisite: Zoology 3000 or equivalent.
- 5240. Physical Education for the Atypical Individual. (2) Su.** Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual.
- 5280. The Organization and Administration of Community Recreation. (2) S.** Trends in recreation on federal, state, and local levels. Legislative provisions; governmental control; financing; personnel; departmental organization, and administrative procedures. Not open to students with credit in Recreation 4830.
- 5300. Advanced Administration of Physical Education in Schools. (2) F, Su.** Liability; construction of facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.
- 5410. Advanced Coaching of Baseball. (1) Su.** Concerned with current trends in the specific areas of interschool baseball programs. A detailed study of new techniques and equipment used in the coaching of baseball.
- 5420. Advanced Coaching of Basketball. (1) Su.** Concerned with current trends in the specific areas of interschool basketball programs. A detailed study of new techniques and equipment used in the coaching of basketball.
- 5430. Advanced Coaching of Football. (1) Su.** Concerned with current trends in the specific areas of interschool football programs. A detailed study of new techniques and equipment used in the coaching of football.
- 5440. Advanced Coaching of Track and Field. (1) Su.** Concerned with current trends in the specific areas of interschool track and field programs. A detailed study of new techniques and equipment used in the coaching of track and field.
- 5570. Analysis of Human Motion. (3) F.** Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Prerequisite: Physical Education Men 2440.
- 5600. Advanced Theory and Analysis of Team Sports. (2) Su.** Study of techniques, organization and team strategy of selected team sports as they relate to the learner in the physical education program. Prerequisite: Proficiency in the selected sports.
- 5610. Advanced Theory and Analysis of Individual Sports. (2) Su.** Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the physical education program. Prerequisite: Proficiency in the selected sports.
- 5613. Women's Gymnastics for Teachers. (2)**
- 5621. Modern Jazz Dance. (2)** Basic skills and techniques in modern jazz dance.
- 5622. International Folk Dance. (2)** Presents the graduate student with an opportunity to increase skills and techniques in folk and square dance.
- 5630. Philosophy of Physical Education. (3) Su.** Study of principles of physical education with application to current problems in the field.

- 5700. Experimental Laboratory Research in Physical Education.** (4) F. Techniques and procedures employed in obtaining anthropometric, metabolic, cardiorespiratory and other physiological data in laboratory and field environments.
- 5710. Sociological Bases of Sport in America.** (3) F. (Alternate odd years) The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America.
- 5730. The Nature and Bases of Motor Behavior.** (3) S. A study of the factors influencing human movement and skill learning. Emphasis is placed upon the input-output aspects of motor skill performance.
- 5800. Analytical Readings in Health, Physical Education and Recreation.** (3) F. (Alternate even years) Assigned readings in professional publications for education and health and physical education articles.
- 5900. Introduction to Graduate Study in Physical Education.** (4) F, Su. A critical review and evaluation of selected studies in physical education and related fields, including an overview of statistical procedures and an in-depth exposure to various types of research.
- 5950. Thesis.** (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study.** (1 to 6) Individual pursuit of study selected by the student. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

PHYSICAL SCIENCE

UNDERGRADUATE COURSES

- 1000. Physics for Elementary and Junior High.** (1-2-2) Basic concepts of physics are presented through the study of topics selected from current elementary and junior high science programs. Restricted to students in curricula for elementary and junior high school teachers.
- 1010. Chemistry for Elementary and Junior High Education.** (1-2-2) Principles of chemistry having particular application in the fields of elementary and junior high education are presented. Restricted to students in curricula for elementary and junior high school teachers. Prerequisite: Physical Science 1000. Credit cannot be accepted toward a degree for both Physical Science 1010 and Chemistry 1100 or 1300 or 1310.
- 3400. Methods of Teaching Physical Sciences.** (3-0-3) F, S. Science lesson presentations, and examination of current literature concerning new approaches in teaching chemistry and physics.

PHYSICS

Note: Physics 1150 and 1160 are intended for students desiring a cultural exposure to physics but lacking the science and mathematics background for enrollment in Physics 1350 and 1360. Students with more extensive background should normally take the latter sequence.

UNDERGRADUATE COURSES

- 1050. Adventures in Physics.** (2-2-3) Emphasizes the relevance of physics to Twentieth Century living. Topics selected from such areas as environmental pollution, light and photography, physics of music, space travel, atomic energy, relativity, etc. No pre-

requisite. No credit toward major or minor in physics nor for a student who has had a previous course in college physics.

- 1150. Principles of Physics I. (3-2-4)** Force and acceleration as they relate to stationary and moving objects, Newton's Law of Gravitation, centripetal force, momentum, some aspects of astronomy, energy, relativity.
- 1160. Principles of Physics II. (3-2-4)** Electricity, and magnetism, light, quantum theory and uncertainty principle, atomic and nuclear physics. Prerequisite: Physics 1150 or permission of instructor.
- 1210. Acoustics for Speech and Music Students. (2-2-3)** S. Sound and acoustics as applied to speech and music. Enrollment limited to music and speech majors or minors.
- 1350. College Physics I. (3-3-4)** Statics, dynamics, simple harmonic motion, waves, sound, kinetic theory, and thermodynamics.
- 1360. College Physics II. (3-3-4)** Electricity and magnetism, optics, atomic and nuclear physics. Prerequisite: Physics 1350 or permission of instructor.
- 2370. Modern Physics. (2-3-3)** Relativity, origin of quantum theory, atomic structure, nuclear structure, instruments and accelerating machines used in nuclear physics, nuclear reactions, elementary particles. Prerequisite: Physics 1360 or permission of instructor. Corequisite: Mathematics 2351.
- 2390. Classical Mechanics I. (3-0-3)** F, S. One dimensional motion, line integral computation of work, vector analysis in coordinate systems, conservative fields, harmonic motion. Prerequisite: Physics 1350. Corequisite: Mathematics 2352.
- 2400. Classical Mechanics II. (3-0-3)** S. Central force motion, gravitational fields and potential, accelerated coordinate systems, vibrating string. Prerequisite: Physics 2390. Corequisite: Mathematics 2353.
- 3000. Descriptive Astronomy. (2-2-3)** An introduction to: the solar system, stars, starlight, interstellar material, galaxies, evolution of stars and galaxies. Open to all students. Does not count towards a physics major or minor.
- 3010, 3011, 3012. Mini-Physics. (1-0-1 for each)** Su, S. Self-contained treatment of an area of physics or of physics and its relationship to society or the environment. Specific topics announced each semester. May be repeated with the approval of the chairman of the department. A maximum of 3 sem. hrs. may be counted toward graduation.
- 3150. Electronics. (2-4-4)** A study of the fundamentals of transistor electronics. Emphasis on scientific applications. Prerequisites: Physics 1360 and one course in calculus.
- 3410. Electricity and Magnetism I. (2-2-3)** F. Coulomb's law, electric fields, potential, Gauss' law, capacitance, dielectrics, electrostatic energy, DC circuits. Prerequisites: Physics 1360 and Mathematics 2353.
- 3420. Electricity and Magnetism II. (3-3-4)** S. Magnetic fields, inductance, varying electric currents, magnetic materials, L, R, and C circuits, Maxwell's equations and applications. Prerequisite: Physics 3410.
- 4000. Seminar in Physics. (1-0-1)** F, S. Reports and discussions of selected topics with instructor approval for oral presentation. Required of junior majors.
- 4010. Seminar in Physics. (1-0-1)** F, S. Reports and discussions of selected topics with instructor approval for oral presentation. Required of senior majors.
- 4410. Independent Study. (0-6-3)** Selected problems based on student's interests. Admission and assignment of problems by arrangement. Laboratory, reading and conference. Prerequisite: Permission of instructor.
- 4470. Optics. (2-3-3)** S. Geometrical optics, optical instruments, wave optics: superposition, coherence, interference, diffraction, polarization. Corequisites: Physics 3420, Mathematics 3501.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Thermodynamics and Statistical Mechanics. (4-0-4) Su, F.** Thermometry, thermodynamic laws, kinetic theory, Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics and applications. Prerequisites: Physics 1360; Mathematics 2352.
- 4800. Independent Study. (0-6-3)** Selected problems based on the student's interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference. Prerequisite: Permission of the instructor.
- 4830. Experimental Physics I. (0-6-3)** Experiments chosen for their pertinence to high school physics teaching. Emphasis on selection, procedure, analyzing results and reporting. Required for high school physics certification. Prerequisite: Physics 1360.
- 4840. Experimental Physics II. (0-6-3)** Experiments from different areas of physics using varied techniques and equipment in acquisition and analysis of physical data. Prerequisite: One physics course beyond Physics 1360.
- 4850. Quantum Mechanics and Atomic Physics I. (3-3-4) S, Su.** Schrodinger equation applied to one, two, and three dimensional problems, harmonic oscillator and hydrogen atom, uncertainty principle. Prerequisites: Physics 2370; Mathematics 3501.
- 4860. Quantum Mechanics and Atomic Physics II. (2-0-2) F.** Applications of the Schrodinger equation to nuclear, solid state, exclusion principle, angular momentum, atomic spectroscopy. Prerequisite: Physics 4850.
- 4870. Theoretical Physics. (3-0-3) S.** Selected topics from dynamics (Lagrangian, Hamiltonian) electromagnetic theory (Maxwell's equations), etc. Prerequisites: Physics 2400, 3420, 4750 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5120. Classical Mechanics for High School Teachers. (3) Su. (every third year beginning 1972)** An enhancement of those fundamental concepts of classical mechanics needed for successful teaching. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
- 5130. Electrodynamics for High School Teachers. (3) Su. (every third year beginning 1972)** Topics of special interest in high school teaching selected from electricity and magnetism. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
- 5140. Electronics for High School Teachers. (3) Su. (every third year beginning 1973)** Concepts of the tube and transistor circuits useful in teaching high school physics. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
- 5150. Astronomy for High School Teachers. (3) Su. (every third year beginning 1973)** Topics of special interest in high school teaching selected from modern astronomy. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
- 5160. Modern Physics for High School Teachers. (3) Su. (every third year beginning 1974)** Topics of special interest in high school teaching selected from Twentieth Century physics. Prerequisites: General college physics, calculus, and high school teaching experience;

or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.

- 5170. Optics for High School Teachers. (3) Su. (every third year beginning 1974)** Topics of special interest in high school teaching selected from the field of optics. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.
- 5990. Independent Study. (1 to 6)** Selected problems based upon the student's background and interests. Admission and assignment of problems by arrangement. Laboratory, reading, conference, and oral reports. Prerequisite: Permission of the instructor.

POLITICAL SCIENCE

UNDERGRADUATE COURSES

- 1003. Introduction to Political Science. (3-0-3)** The basic concepts of Political Science: types of governmental structures and functions, political processes, political philosophies.
- 1011. Participation in Political Campaigns. (1-Arr.-1) F. state and national election years. (Pass-Fail)** Active participation in the electoral campaign of an individual candidate for state or national office or for the candidates of one political party. May be repeated with permission of the chairman of the department.
- 1104. American National Government. (3-2-4)** The fundamental principles of the American Constitutional System: Federalism, political opinion, political parties, pressure groups, legislators, the Presidency, bureaucracy, judiciary, civil liberties.
- 2003 (2002). Bibliography of Political Science. (1-4-3)** A survey of library materials and library research techniques in political science.
- 2011. Constitutional Principles. (1-0-1) F, S. (Pass-Fail only)** A study of the Declaration of Independence, the proper use and display of the flag, and the constitutions of the United States and the State of Illinois.
- 2203. Introduction to International Relations. (3-0-3) Su, F.** An examination of the nature of the nation-state system and the sources of conflict in the international community.
- 2603. State and Local Government. (3-0-3) F, S.** The legal authority, structure, leadership and functions of state, county and city governments; an analysis of the Illinois state constitution.
- 3203. American Foreign Policy. (3-0-3) Su, F.** An analysis of major American foreign policy problems and the factors shaping foreign policy decisions.
- 3223. International Organization. (3-0-3) S.** An analysis of the development, scope and functions of general and regional international organizations and the process of international integration.
- 3303. Government and Politics of Great Britain and Western Europe. (3-0-3) F.** An area approach to the structures and functions of governments, political attitudes and behavior, parties, elections and interest groups. Prerequisite: Three semester hours of political science.
- 3313. Current Policy Issues in Western Europe and Great Britain. (3-0-3) (Omitted 1974-75)** Health and welfare, civil rights, education, environment, labor-management, agriculture, foreign policy, the Common Market, and other issues of interest. Prerequisite: Three semester hours of political science.

- 3323. Government and Politics of the U.S.S.R. and Eastern Europe. (3-0-3) S.** Marxism-Leninism, structures and functions of the Communist Party and government, social and economic policy, dissent, and the police state. Prerequisite: Three semester hours of political science.
- 3333. Government and Politics of Latin America. (3-0-3) F.** The government and politics of Latin American countries; the application of general comparative concepts. Prerequisite: Three semester hours of political science.
- 3343. Government and Politics of the Middle East. (3-0-3) S.** The governments and politics of the countries of the contemporary Middle East with an emphasis upon the processes of political modernization. Prerequisite: Three semester hours of political science.
- 3353. Government and Politics of Africa. (3-0-3) Su.** The political systems and the patterns of development in Africa with an emphasis upon the processes of political modernization in contemporary Africa. Prerequisite: Three semester hours of political science.
- 3363. Government and Politics of Asia. (3-0-3) (Omitted 1974-75)** The political systems of the major nations of Asia with an emphasis upon nationalism, political processes and institutions. Prerequisite: Three semester hours of political science.
- 3413. Introduction to Public Administration. (3-0-3) F.** A study of the growth, principles and problems of public administration and its relationship to politics. Prerequisite: Political Science 1104.
- 3503. Introduction to the Legal System. (3-0-3) F.** Judicial institutions and processes with emphasis upon the selection of judges, judicial decision making, and proposals for reform of the judiciary. Prerequisite: Political Science 1104 or permission of the instructor. (Recommended for Pre-Law students.)
- 3513 (4783). Politics and the Legal Process. (3-0-3) S.** An analysis of the legal process as an integral part of the American political system with an emphasis upon the behavior of its participants: the police, lawyers, defendants, plaintiffs, politicians. Prerequisite: Political Science 1104.
- 3643. Comparative State Politics. (3-0-3)** An introduction to the comparative analysis of state political systems with an emphasis on state administration and policy outputs.
- 3713. Political Parties and Elections. (3-0-3) F.** An examination of the structure, function and role of political parties in the United States. Prerequisite: Political Science 1104 or permission of the instructor.
- 3723. Political Behavior. (3-0-3) S.** An analysis of individual and group political behavior with an emphasis upon current research. Prerequisite: Political Science 1104 or permission of the instructor.
- 3733. Interest Groups. (3-0-3) S.** An analysis of the role and techniques of labor, business, agrarian, ethnic and other groups in the political process. Prerequisite: Political Science 1104 or permission of the instructor.
- 3743. The Legislative Process. (3-0-3) S.** An examination of the institutional structures and functions of legislative bodies. Prerequisite: Political Science 1104 or permission of the instructor.
- 3753. The American Presidency. (3-0-3) Su.** An analysis of the development of the American Presidency, including the various roles and powers of the President and a comparison of those roles and powers with those of the modern governor. Prerequisites: Political Science 1104 and 2603 or permission of the instructor.
- 3990. Summer Study in Ireland. (0-0-6) Su.** Independent research in political science. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Junior or senior standing.
- 4000. Internship. (Arr.-Arr.-15 or 12) (Pass-Fail)** A semester's experience as an intern in a

governmental agency, political party organization, or state or national student organization. Credit for this course does not count toward graduation if the student has earned 12 or more semester hours of Pass-Fail credit in student teaching or any other internship offered by the University. Prerequisites: Permission of the chairman of the department and acceptance of the student by an appropriate organization or agency. *Note:* 15 semester hours credit in fall or spring semester; 12 semester hours credit in summer term.

- 4503. Independent Study. (Arr.-Arr.-3)** An intensive study in some specialized area of interest in political science; the student must present an individual study plan for approval. Prerequisites: Six semester hours of political science, senior standing, and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4753. Methods of Political Analysis. (3-0-3) F.** The evolution of concepts of political analysis; types of political analysis; the formation of concepts, hypotheses, theories and research problems. Prerequisite: Nine semester hours of political science or permission of instructor.
- 4744. The Supreme Court and the Constitution. (4-0-4) F, S.** An analysis of Supreme Court Decisions on judicial review, federalism, powers of Congress, powers of the President, contracts, commerce, taxation; the present status and prospects of civil liberties. Prerequisites: Political Science 1104, 3503, or permission of the instructor.
- 4793. Public Administration: Organization and Process. (3-0-3) Su, F.** A study of the dynamics of organization origin and policy development; a survey of contemporary theory and its significance. Prerequisite: Political Science 1104.
- 4803. Politics of the Emerging Nations. (3-0-3) S.** A comparative survey of the politics, policies and problems of the emerging nations in Africa, Asia, the Middle East and Latin America. Prerequisite: One 300-level course in comparative government and politics or permission of the instructor.
- 4813. International Law. (3-0-3) S.** An analysis of the historical bases and current trends in international law and its role in current world politics. Prerequisite: Political Science 2203 or permission of the instructor.
- 4843. Analysis of Urban Politics. (3-0-3) S.** A study of the empirical research dealing with urban government and the structural components of urban politics. Prerequisite: Political Science 2603 or 3643 or permission of the instructor.
- 4903. Political Theory: Ancient, Medieval, and Modern. (3-0-3) F.** The origins and evolution of major concepts in political thought from the time of Pericles through Rousseau. Prerequisite: Six semester hours of political science or permission of instructor.
- 4913. Contemporary Political Theory. (3-0-3) S.** Contemporary concepts in political thought with an emphasis upon the development of communism, fascism and democracy. Prerequisite: Six semester hours of political science or permission of the instructor.
- 4933. The Ideologies of the Developing Nations. (3-0-3) F.** A study of the sources and evolution of political thought in the developing nations with an emphasis upon contemporary ideologies of reform and/or revolution. Prerequisite: Six semester hours of Political Science or permission of the instructor.
- 4952. The Literature of Political Science. (2-0-2) F, S.** A comprehensive survey of selected works in the literature of political science. Prerequisite: Twelve semester hours of upper division courses in political science.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5003, 5013. Administrative Internship. (3 each course)** A student will serve as an intern in a federal, state, county, municipal or party organization or agency appropriate to his area of concentration.
- 5023. Contemporary Problems in International Politics. (3)** S. Approaches to the study of international politics and contemporary world problems. Prerequisite: Political Science 2203, or 3203 or 3223.
- 5033. Seminar in Western Political Systems. (3)** F. An analysis of selected topics in the political processes and structures of Western nations. Prerequisite: Nine semester hours in comparative political systems or international relations or permission of the instructor.
- 5053. Contemporary Constitutional Development. (3)** S. A case-book approach to an analysis of the influence of the Supreme Court and the development of constitutional law. Prerequisites: Political Science 3503, 3513, or 4774.
- 5063. Seminar in Urban Development. (3)** F. An analysis of the patterns of development of American cities with an emphasis upon the political ramifications of urban areas. Prerequisites: Political Science 2603, 3643, or permission of the instructor.
- 5073. Seminar in Political Behavior. (3)** Su. An analysis of political behavior; the formation of opinions, roles and personality; democratic and authoritarian personality types. Prerequisite: Political Science 3723 or permission of the instructor.
- 5533. Seminar in Political Modernization. (3) (Omitted 1974-75)** An analysis of selected topics relating to the political process and structures of the developing nations. Prerequisite: Nine semester hours in comparative political systems or international relations or permission of the instructor.
- 5543. Seminar in Public Administration. (3)** S. The environment of public administration, functions of the administrator, organizational theory and practice, personnel administration, administrative law. Prerequisite: Political Science 3413 or 4793 or permission of the instructor.
- 5583. Seminar in Political Analysis. (3)** S. An analysis of the logic of scientific inquiry and the construction and carrying out of systematic research designs. Prerequisite: Political Science 4753 or permission of the instructor.
- 5593. Seminar in Contemporary Political Theory. (3)** F. An examination of the development of political theory since World War I with an emphasis upon individual research. Prerequisite: Nine semester hours of political science or permission of the instructor.
- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** An intensive study in some specialized area of interest in Political Science; the student must present an individual study plan for approval. Prerequisite: Nine semester hours of graduate courses in political science. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

PSYCHOLOGY

UNDERGRADUATE COURSES

- 2310. General Psychology. (3-0-3)** A survey of methods, concepts, and principles in psychology.

- 2340. Introduction to the Science of Psychology. (3-0-3)** Introduction to methods and techniques of investigation; research design, statistics and other selected topics. Prerequisite: Psychology 2310.
- 2510. Models of Psychopathology. (3-0-3)** Medical, behavioral, and humanistic models of pathological and normal behavior. Emphasis on structure, function, and etiology. Restricted to Psychology majors and minors. Prerequisite: Psychology 2310. Credit not given for both 2510 and 4780.
- 2610. Statistical Methods of Psychology. (3-2-4)** Application of statistical methods to behavioral data. Prerequisite: Psychology 2310. Not open to students who have taken or are enrolled in Mathematics 3701 or 3702.
- 3310. Physiological Psychology. (3-0-3)** F, S. A survey of the physiological correlates of the behavior in man and lower organisms. Prerequisite: Psychology 2310.
- 3400. Methods of Teaching Psychology. (3-0-3)** F. Problems and procedures in preparing presentations to secondary students in the field of psychology. Supervised simulated teaching experience. Prerequisite: Psychology 2310 plus twelve semester hours in psychology.
- 3500. Child Psychology. (2-0-2)** A study of psychological, social, cultural, physical and emotional factors that affect personality development and behavior of children. Prerequisite: Psychology 2310. Credit is not given for both 3501 and 3500.
- 3501. Child Psychology. (2-2-3)** A study of psychological, social, cultural, physical and emotional factors that affect personality development and behavior of children. Field work. Prerequisite: Psychology 2310. Credit is not given for both 3500 and 3501.
- 3520. Adolescent Psychology. (2-0-2)** The psychology of the adolescent in relation to: family, friends, the opposite sex, delinquent behavior, growth and development attitudes, interests, values. Prerequisite: Psychology 2310.
- 3530. Industrial Psychology. (2-0-2)** F, S. Applications of the methods and principles of psychology to industrial situations.
- 3540. Psychology of Maturity and Old Age. (3-0-3)** A study of human developmental age-related changes from post adolescence to death in such psychological process areas as intelligence, learning and memory, personality, sensation and perception, motivation and emotion. Emphasis will be given to developmental changes following adolescence to death. Prerequisite: Psychology 2310.
- 3550. Mental Hygiene. (2-0-2)** Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.
- 3590. Theories of Personality. (3-0-3)** F, S. A comparison of the major theories of personality with emphasis on the method used in theory validation. Prerequisite: Psychology 2310.
- 3600. Psychological Measurements: Fundamental Principles. (2-0-2)** Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests. Prerequisite: Psychology 2310. Credit is not given for both 3601 and 3600. Not open to psychology majors.
- 3601. Psychological Measurements: Fundamental Principles. (2-2-3)** Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests. Prerequisite: Psychology 2310. Credit is not given for both 3600 and 3601. For psychology majors.
- 3620. Psychology of Learning. (3-0-3)** S. Introduction into basic principles and concepts of learning with particular emphasis on the application to problems of human learning. Prerequisite: Psychology 2310. This course does not substitute for Educational Psychology 3320 or Secondary Education 3320.
- 3810. Experimental Psychology: Learning. (2-4-4)** F, Su. Research projects in animal learning,

acquisition of psychomotor skills and verbal learning. Provides opportunity to design experiments, analyze data and write scientific reports. Prerequisites: Psychology 2310 and 2610.

- 3820. Experimental Psychology: Perception. (2-4-4) S, Su.** Study of the development and organization of perception in man. Provides opportunity to conduct demonstrations and experiments. Prerequisites: Psychology 2310, 2340 and 2610.
- 3900, 3910, 3920. Independent Study in Psychology. (Arr.-1-3 each course)** Admission and assignment of problems by arrangement. Laboratory, reading and weekly conference. Prerequisite: Permission of the instructor. Limited to six hours.
- 3990. Summer Study in Ireland. (0-0-6) Su.** Independent research in psychology. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Junior or senior standing.
- 4250. History and Systems. (4-0-4) F.** Equal time will be devoted to contemporary systems and the history of psychology as an experimental science.
- 4700. Psychology of Racism and Black Americans. (3-0-3)** Psychology of Racism. Applications of social psychological principles to understanding the formation and perpetuation of racial attitudes. Prerequisite: Psychology 2310, or permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Psychology of Exceptional Children. (3-0-3)** Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal. Prerequisite: Psychology 2310.
- 4780. Abnormal Behavior. (3-0-3)** An examination of etiology, diagnosis, treatment and prevention of neuroses, psychoses and psychophysiological disorders. Prerequisite: Psychology 2310. Credit not given for both 4780 and 2510.
- 4790. Individual Intelligence Testing. (3-0-3)** Advanced study of individual intelligence tests; practice in administration and interpretation. Prerequisites: Psychology 2310 and 3600.
- 4870. Social Psychology. (3-0-3)** A study of individual behavior and psychological processes in the social settings. Prerequisite: Psychology 2310.
- 4880. Advanced Statistics in Psychology. (3-0-3) S, Su.** Analysis of variance techniques in experimental design. Prerequisites: Psychology 2610 or equivalent.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5000. Human Operant Conditioning. (3)** The basic concepts of human operant conditioning. Emphasizes applied research and techniques of behavior management applicable to the home, school and clinic.
- 5010. Psychological Measurements: Actuarial Techniques. (3)** Advanced study of self-report tests: practice in administration and interpretation. Prerequisites: Psychology 2610, 3600 or 4780 or equivalents.
- 5020. Psychological Measurements: Projective Techniques. (3) F, Su.** Study of perceptual personality tests: practice in administration and interpretation. Prerequisites: Psychology 3590 and 5010.
- 5030. The School Psychologist. (2) S.** An introduction into the activities of the school psychologist. Prerequisites: Psychology 3500 and 3520.

- 5040. Psychotherapeutic Principles and Practices I. (3)** A critical survey of issues, principles, practices, and research as related to the traditional approaches in psychotherapy. Prerequisite: Psychology 3590 or equivalent.
- 5050. Therapeutic Practices: Behavioral Approaches. (3)** Su, S. An indepth approach to the learning foundations of behavior therapy and the practices derived from these foundations. Prerequisites: Psychology 3620 and 5000 or their equivalents.
- 5550. Community Psychology. (3)** S, Su. A study of the psychological theory and techniques involved in understanding community organization and change. Includes both didactic and field experience. Prerequisite: Permission of the instructor.
- 5600. Quantitative Methods in Psychology. (3)** F. Psychometric theory; correlational analysis, e.g., factor analysis; non-parametric statistics. Prerequisite: Psychology 2610 or equivalent.
- 5620. Theories of Learning. (3)** S. A survey and comparison of theories of learning. Prerequisite: Psychology 3620 or permission of the instructor.
- 5700. Motivation. (3)** F. An introduction to theory and research related to biological and psychological motivation. Prerequisite: Psychology 3310 or permission of the instructor.
- 5710. Comparative Psychology. (3)** Su. A comparison of psychological processes in various forms of animal life, including man. Prerequisite: Permission of the instructor.
- 5810. Advanced Experimental I. (4)** F. A survey of the basic findings and theories related to sensory and perceptual processes. Prerequisite: Psychology 3820 or permission of the instructor. Recommend 3310 be taken prior to course.
- 5820. Advanced Experimental II. (4)** S, Su. Lecture/Lab. Basic laboratory techniques and instrumentation involved in the study of learning. Emphasizes original experimentation. Prerequisites: Psychology 3810 or 3820 or permission of instructor. Recommend 3310 be taken prior to course.
- 5890. Field Study or Practicum. (3)** Supervised experience in a setting that allows the application of skills and training of the student's area of concentration. Prerequisite: Approval of the chairman of the department and permission of the instructor. May be repeated.
- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5970. Seminar Topics in Psychology. (3)** Specific areas or topics of psychology will be given intensive study through readings, reports and group discussions. Topics will be selected on the basis of need. Prerequisite: Permission of the instructor.
- 5990. Independent Study. (1 to 6)** Advanced study of topics selected by the student and approved by his advisor. May include research, readings, group discussions. Prerequisite: Permission of instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

RECREATION

UNDERGRADUATE COURSES

- 1320. Leadership in Recreation. (2-2-3)** Basic philosophy of recreation and of activities and interests in the field of recreation; practical experience in planning and conducting activities.
- 1780. Introduction to Community Recreation. (2-0-2)** F, S. Various approaches to community

organization of recreation with study of the settings provided for the development of recreation services.

- 2250. Therapeutic Recreation. (3-0-3)** Program planning and conduct of diverse recreational activities for disabled persons in a variety of settings.
- 2280. Organization and Administration of Playgrounds. (2-0-2)** F, S. Administrative problems associated with the total operation of playgrounds.
- 3510. Camp Administration and Leadership. (2-0-2)** F, S. Organization and administration of camps including program planning; counselor problems; camp policies.
- 3550. Fieldwork in Recreation. (1-4-3)** F, S. Students are assigned to a public or private agency in the community for the purpose of organizing and conducting activities under supervision. Discussion of problems associated with in-service training. Prerequisite: Recreation 1320 and 1780. For recreation majors only.
- 3560. Outdoor Education and Outing Crafts. (1-2-2)** S, Su. A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in the various areas covered.
- 4410. Summer Practicum. (Arr.-Arr.-4)** Su. A field experience to include assignment to an established community recreation or agency program. Prerequisite: Recreation 3550.
- 4741, 4742, 4743, 4744, 4745, 4746. Independent Study. (Arr.-Arr.-1, 2, 3, 4, 5, 6 respectively)** An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected topic in Recreation. Prerequisite: Permission of the chairman of the department. *Note:* May be repeated; the maximum amount of credit which may be earned is six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Recreation in the Natural Environment. (1-2-2)** F, S. An analysis of existing programs of recreation, both commercial and public, conducted in the natural environment. Laboratory experiences in a variety of outdoor activities.
- 4790. Swimming Pool Management and Operation. (3-0-3)** F, S. A course to orient the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning.
- 4800. School Recreation and Intramural Sports. (2-2-3)** The educational philosophy of school recreation; function of administrative personnel; units of participation; scheduling; conduct of intramural and school recreation programs.
- 4830. Organization and Administration of Park and Recreation Programs. (3-0-3)** Exploration of philosophical viewpoints underlying a recreation program; criteria for evaluating the recreational potential of a community; administrative problems related to park and recreation programs. Not open to students with credit in Physical Education 5280.
- 4840. Development of Areas and Facilities for Health, Physical Education, Recreation. (3-0-3)** Design and operation of physical education and recreation facilities, both indoor and outdoor, including types, location, layout, and construction standards.

SECONDARY EDUCATION

UNDERGRADUATE COURSES

- 2000. Level I: Experimental Secondary Education Program. (0-1-0)** No prerequisite and open to freshmen and sophomores.

- 3000. Level II: Experimental Secondary Education Program. (2-3-3)** No prerequisite for students enrolled fall semester 1974. Thereafter Secondary Education 2000 is a prerequisite.
- 3100. Level III: Experimental Secondary Education Program. (3-5-5)** Prerequisite: Secondary Education 3000.
- 3320. Educational Psychology and the Instructional Task in Secondary School. (5-0-5)** Individual growth and development, motivation, learning theory, appraisal of human differences. General methods, planning, instructional materials, classroom management, student evaluation, innovative practices, and professionalism. Prerequisite: Psychology 2310 and junior standing. Team teaching with Educational Psychology. A student may take the course for credit in only one of the departments.
- 4000. Level IV: Experimental Secondary Education Program. (Arr.-Arr.-13)** Prerequisite: Secondary Education 3100.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5490. Special Educational Problems. (1-3) On demand.** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the chairman of the department. May be repeated for a total of six semester hours.
- 5990. Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department.
- 6150. Seminar in College and University Teaching. (2) On demand.** This course is designed to develop and improve skill in college and university teaching. The emphasis will be upon developing techniques of teaching, psychology of learning, instructional media, and evaluation.

SOCIAL SCIENCE

UNDERGRADUATE COURSES

- 3400.** **Methods and materials in the Social Studies in the Secondary School. (3-0-3)** Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies.
- 4400, 4410.** **Contemporary Problems. (Topics to be determined). (3-0-3 each course)** Su.

SOCIOLOGY

UNDERGRADUATE COURSES

- 2710.** **Principles of Sociology. (3-0-3)** Study of basic sociological concepts; and social processes; structural and functional analysis of social groups.
- 2720.** **Social Problems and Social Trends. (3-0-3)** Analysis of the nature of social problems, theories, deviant behavior; social disorganization, adjustment mechanisms and social control. Prerequisite: Sociology 2710.
- 3600.** **Introduction to Social Work. (3-0-3)** F, S. A survey of principles, techniques, and fields of social work. Prerequisite: Sociology 2710.
- 3622.** **Demography. (3-0-3)** S. A descriptive and theoretical analysis of the dynamics of population with emphasis on population trends. Prerequisite: Sociology 2710.
- 3650.** **Social Systems and Social Roles. (3-0-3)** F, S. Social psychological theories; social status and social roles; application of role theories in study of socialization and personal adjustment. Prerequisite: Sociology 2710.
- 3662.** **The Sociology of Religion. (3-0-3)** S. Study of the development of religious and functional significance of beliefs and rituals. Prerequisite: Sociology 2710.
- 3681.** **Public Opinion and Propaganda. (3-0-3)** F. Analysis of the fundamentals of communication, the opinion making process, and methods of opinion and attitude manipulation and measurement. Prerequisite: Sociology 2710.
- 3700.** **Dynamics of Collective Behavior. (3-0-3)** S, Su. Analysis of transitory phenomena, including publics, audiences, crowds, mobs, riots, and social movements. Prerequisite: Sociology 2710.
- 3761.** **Introduction to Criminology. (3-0-3)** F. A historical and sociological survey of the criminal justice system in the United States, a review of etiological factors of crime, delinquency and prevention. Prerequisite: Sociology 2710.
- 3791.** **The Community. (3-0-3)** S. Analysis of community structure and function, ecological patterns and processes, social problems, and social action. Prerequisite: Sociology 2710.
- 3801.** **The Sociology of Rural Life. (3-0-3)** F. Study of patterns of land settlement, social interaction, social structure and function, and social problems unique to the rural way of life. Prerequisite: Sociology 2710.
- 3810.** **The Sociology of Urban Life. (3-0-3)** F, S. Analysis of the social structure and function, social processes, and planning and development of the city. Prerequisite: Sociology 2710.

- 3990. Summer Study in Ireland. (0-0-6) Su.** Independent research in sociology. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Sociology 2710 and junior or senior standing.
- 4251. The Sociology of Education. (3-0-3) F.** Sociological analysis of the structure and function of educational institutions. Emphasis on social processes, patterns, and trends. Prerequisite: Sociology 2710.
- 4520. The Development of Sociological Thought. (3-0-3)** This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry. Restricted to majors and minors in sociology and social science. Prerequisite: Sociology 2710.
- 4581. Work and Leisure in Mass Society. (3-0-3) F.** Study of patterns and theories of work and leisure; emphasis on impact of the industrial and technological revolution. and cybernation. Prerequisite: Sociology 2710.
- 4611. Statistical Analysis of Social Data. (3-0-3) F.** Survey of statistical techniques used to summarize and describe the quantitative characteristics of social research data. Also surveys statistical techniques necessary to generalize observations from samples to parent populations.
- 4622. Research Methods for Collecting Social Data. (3-0-3) S.** Surveys social scientific methods developed to collect data in human populations. Stresses importance of problem formulation, research design and interpretation. Prerequisites: Sociology 2710, 4611.
- 4702. Sociology of Medicine. (3-0-3) S.** Analysis of the relationship between pathology and social structure, function, and processes. Prerequisite: Sociology 2710.
- 4721. Social Stratification. (3-0-3) F.** A descriptive and theoretical analysis of social stratification; study of the problems created by differential status, power, and social mobility.
- 4730. Marriage and the Family. (3-0-3)** Background of the modern family; the impact of culture and social change; personality factors involved in marriage; family disorganization.
- 4740. Racial and Cultural Minorities. (3-0-3)** The causes and consequences of prejudice and discrimination; the effects of majority and minority status for intergroup relations. Prerequisite: Sociology 2710.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Sociological Analysis of Juvenile Delinquency. (3-0-3)** Advanced study of theories of etiology, treatment and prevention. Prerequisites: 2710, 3761 or consent of the instructor.
- 4770. Sociological Analysis of Crime and Criminal Justice System. (3-0-3) S.** An advanced study of social-psychological factors of crime and the adult offender, vis-a-vis the Criminal Justice system; i.e., apprehension, adjudication, treatment and prevention practices. Prerequisites: Sociology 2710, 3761 or permission of the instructor.
- 4800. Sociological Aspects of Gerontology. (3-0-3) S.** Review of current gerontological theories and research; consideration of structural and functional aspects of the social order as related to the aging process. Prerequisite: Sociology 2710.
- 4900. Individual Problems in Sociology. (3-0-3)** Analysis of selected current social problems with emphasis on sociological research techniques. Restricted to majors in Sociology and Social Science. Prerequisites: Sociology 4520, 4622.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5030. Contemporary Sociological Theory. (3)** Consideration of the major contemporary sociological theories and conceptual orientations.
- 5070. Advanced Research Methods in the Social Sciences. (3)** Philosophy of the social sciences, alternative strategies of research design, data collection methods, techniques of causal analysis, use of library computer programs for data analysis, issues and techniques in the evaluation of social programs. Prerequisites: Sociology 4611 and 4622.
- 5100. Social Organization. (3)** Analysis of social groups in the context of social structure, latent and manifest functions, social processes, and the nature of recruitment.
- 5200. Urban Social Problems. (3)** In-depth analysis of major social problems of the city. The generation of hypotheses and research proposals will be emphasized.
- 5300. Community Planning and Development. (3)** Analysis of the techniques to facilitate orderly growth and redevelopment of the total community, including the study of both social and environmental problems.
- 5400. Problems of the American Family. (3)** Investigation of the various theoretical orientations and methodological techniques in the study of family problems; analysis of patterns, trends, and adjustment mechanisms.
- 5700. Advanced Criminology. (3)** Seminar exploring recent innovations in the criminal justice system. Prerequisites: Sociology 4750 and 4770, or their equivalents.
- 5800. Social Change. (3)** Analysis of theories of social change; emphasis on the major forces in social change as revealed by historical examples.
- 5850. Advanced Sociology of Medicine. (3)** A comparative study of health care organization with special attention to the recruitment and socialization of medical professionals and paraprofessionals.
- 5930. Internship in Social Relations. (3 to 6)** A supervised work experience in local agencies to familiarize students with actual day-to-day operations and procedures relevant to the student's option.
- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Individual pursuit of study selected by the student. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

SPECIAL EDUCATION

UNDERGRADUATE COURSES

- 2500. The Education of Exceptional Children. (2-0-2) F, S.** A study of the special educational needs of students with exceptional characteristics; the methods; and the educational programs designed to meet their needs in the public schools.
- 3300. The Mentally Handicapped Child. (3-0-3)** A study of the characteristics of mentally handicapped children. Prerequisites: Elementary Education 2320 or Psychology 3500, or permission of the chairman of the department.
- 3350. The Child with Learning Disabilities. (2-0-2)** This course will deal with the nature and characteristics of pupils with learning disabilities. Pupils with physiological and perceptual disabilities will be studied. Prerequisites: Elementary Education 2320 or an acceptable substitute.

- 3400. Methods, Material, Curriculum for Secondary Educable Mentally Handicapped. (3-0-3) S.** Methods and techniques of teaching educable mentally handicapped children at secondary level. Prerequisites: Junior standing and Special Education 3300.
- 4660. The Socially and Emotionally Maladjusted Child. (3-0-3) F.** A study of the nature and characteristics of socially and emotionally maladjusted children including causes, treatment, identification, and educational planning. Prerequisites: Junior standing, Elementary Education 2320, or an acceptable substitute, or permission of the chairman of the department.
- 4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4870. (4670). Diagnosis of Problems of Socially and Emotionally Maladjusted Children. (2-0-2) S.** A study of the test and examinations used to evaluate the emotional and psychological problems of maladjusted children. Prerequisite: Special Education 4660 and permission of the chairman of the department.
- 4880 (4680). Teaching the Socially and Emotionally Maladjusted. (3-0-3) Su.** Prerequisites: Special Education 4660 and 4870 or permission of the chairman of the department.
- 4960. Educational Procedures for Educable Mentally Handicapped Children. (3-0-3) Class** and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children. Prerequisite: Special Education 3300 or permission of the chairman of the department.
- 4980. The Diagnosis of Learning Disabilities. (3-0-3)** The study of the means and methods of diagnosing learning disabilities of children which interfere with their learning processes. Prerequisites: Special Education 3350 or permission of the chairman of the department.
- 4990. Remediation of Learning Disabilities. (3-0-3) F, S.** This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching; curriculum needs, and classroom management of such children will be studied. Prerequisites: Special Education 3350, 4980, or permission of the chairman of the department.

SPEECH-COMMUNICATION

UNDERGRADUATE COURSES

- 1020. Applied Forensics. (Arr.-Arr.-1 to 4)** Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the chairman of the department. A maximum of four semester hours may be earned; however, a total of four semester hours credit may be counted towards a bachelor's degree for a combination of 1020 and 3020.
- 1310. Introduction to Speech-Communication. (3-0-3)** Fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view.
- 1400. Parliamentary Law. (2-0-1)** The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.
- 2300. Persuasion. (3-0-3)** Study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion in communication.

- 2320. Discussion. (3-0-3)** Study of the nature of discussion and bases of belief: subject-problems, preparation, process, leadership, participation, types and forms, and evaluation.
- 2340. Reasoning in Controversy. (3-0-3)** Study of the responsibility of the advocate in investigation and analysis of evidence; structure of argument; reasoning and refutation. Prerequisite: Speech-Communication 1310 or permission of the chairman of the department.
- 2520. Introduction to Mass Communications (Broadcasting). (3-0-3) F, S.** Survey of the origin and growth of broadcasting, the social basis of radio, TV, and motion pictures and the physical nature of mass media.
- 2530. Fundamentals of Cinematography. (2-3-3) Su, S.** Introduction to cinema theory and the preparation, production, direction, and technical evaluation of motion picture film.
- 2540. Understanding Media. (3-0-3) S.** An historical survey of radio programs, and television productions. A study of mass media.
- 3020. Advanced Applied Forensics. (Arr.-Arr.- 1 to 4)** Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the chairman of the department. A maximum of four semester hours may be earned; however, a total of four semester hours credit may be counted towards a bachelor's degree for a combination of 1020 and 3020.
- 3170. Oral Communication Theories. (3-0-3)** Historical survey of major theorists and theories.
- 3200. Speech Criticism. (3-0-3)** Comparative study in which standards of judgment deriving from the social interaction of a speech situation are applied to public addresses to determine their immediate or delayed effect upon audiences and society.
- 3230. Advanced Public Speaking. (3-0-3) (Omitted 1974-75)** Principles and techniques of audience analysis, topic analysis and preparation, communication theories, and performance and evaluation. Prerequisite: Speech-Communication 1310 and 2300.
- 3300. Interview and Conference. (3-0-3)** The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and interpersonal situations. Prerequisite: Speech-Communication 1310.
- 3400. Teaching Speech. (3-0-3) F, S.** Study of problems, methods, and materials, in teaching oral communication; teaching and directing co-curricular activities. Prerequisites: Fourteen semester hours in speech.
- 3510. Broadcasting Internship. (Arr.-Arr.-1)** Individual study, experience and practice in the various aspects of commercial broadcasting. May be taken for a maximum of 3 semester hours credit.
- 3520. Radio Production. (3-0-3) F.** Study of equipment and techniques involved in producing radio programs: announcing, scripting, writing, and producing.
- 3530. Introduction to Film Communication. (3-0-3) S.** Film as the expression of the performers and technicians. Critical discussion of the film form and content.
- 3540. Television Production. (3-0-3) S.** Study and practice of adapting demonstrative documentary and dramatic communications to the television medium. Exercises using studio TV equipment.
- 3620. Broadcast News and Special Events. (3-0-3) S.** Study of radio and television news technique and ethics, including gathering, editing, writing, organizations, presentation, and critical judgment. Prerequisite: Speech-Communication 2520 or Journalism 2102.
- 3830 (4830). General Semantics. (3-0-3)** Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.

- 4000. Independent Study. (Arr.-Arr.-3)** Consideration of special problems in speech and speech education. Student presents individual study plan for researching history, theory, and/or practice of oral communication. Prerequisite: Permission of the chairman of the department.
- 4470. Small Group Communication. (3-0-3) S.** An analysis of theoretical constructs in group dynamics, leadership, participation, and evaluation of group performance.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Advanced Theory of Mass Communications. (3-0-3) S.** Survey of legal procedures of broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research.
- 4760. Theories of Interpersonal Communication. (3-0-3)** An examination of contemporary theories and models.
- 4800. Contemporary American Public Address. (3-0-3) F.** Study of competing points of view on a series of critical issues of the Twentieth Century.
- 4860. Psychology of Speech. (3-0-3) F.** Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.
- 4900. Directing Forensic Activities. (3-0-3)** Designed to prepare those entering the field of speech education on the secondary and college levels to direct an extra curricular forensics program. Prerequisites: Speech-Communication 2320 and 2340.
- 4996. Problems in Teaching Speech. (3-0-3) Su.** The analysis of specific problems peculiar to speech education and problems in general education applicable to the speech classroom.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5030. Seminar. (3) (On demand)** A study of different aspects of speech-communication. Topics will vary according to student demands, availability, and interest of faculty.
- 5100. Advanced Argumentation Theory. (3) (Omitted 1974-75)** A study of advanced theory into the nature, function and structure of argument.
- 5320. Background of Rhetoric. (3) F.** A study of rhetorical theory from 465 B.C. through 1400 A.D.
- 5330. Background of Rhetoric. (3) (Omitted 1974-75)** A study of rhetorical theory from 1400 through 1900.
- 5400. American Public Address. (3) F.** A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.
- 5410. American Public Address. (3) S.** A study of public speaking in America from 1850 through the early Twentieth Century.
- 5580. Theories of Leadership in Communication. (3) F, Su.** An investigation of leadership theories and their relationship to interpersonal communication.
- 5600. Deliberation of Human Problems. (3) S.** Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems.
- 5620. Modern Rhetorical Theory. (3) S.** Survey of Twentieth Century theories of rhetoric.

- 5720. British Public Address. (3) S.** Study of British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.
- 5820. Survey of Behavioral Research in Communications. (3) S.** The summarization, evaluation, and synthesization of behavioral research in communication. A review of scientific methods and experimental results of communication studies. Prerequisite: Speech 5910 or permission of instructor.
- 5830. Seminar in Teaching Speech on the College Level. (3) F.** Objectives: problems, methods, materials in teaching college speech. Prerequisite: Nine semester hours in speech or permission of the chairman of the department.
- 5890. Philosophical Foundations of Speech. (3) S.** Studies designed to synthesize the student's rhetorical background and to philosophically relate rhetoric to philosophy, logic, politics, ethics, and language.
- 5900. Qualitative Research Methods in Speech-Communication. (2) F.** An introduction to research methods, bibliographical resources, and professional writing in the field of speech.
- 5910. Quantitative Research Methods in Communication. (2) F.** An introduction to quantitative research methods for graduate students planning quantitative research in communications.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** The study of and reports on a specific problem in speech. Student presents an individual study plan for researching history, theory, and/or practice of speech. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

SPEECH PATHOLOGY AND AUDIOLOGY

UNDERGRADUATE COURSES

- 0201. Communication I for International Students. (3-2-4) F.** An intermediate course dealing with speech intelligibility and listening comprehension. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
- 0202. Communication II for International Students. (3-2-4) S.** An intermediate course dealing with reading and writing skills. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
- 0203. Communication III for International Students. (3-2-4) (Offered on demand)** An advanced course dealing with oral and written skills necessary for students to profit from basic English and speech courses. Prerequisite: Michigan Test of English Language Proficiency and permission of the instructor.
- 1100. Developmental Phonology. (2-2-3)** Physiologic, acoustic and linguistic bases of English phonology. The course develops IPA transcription skills in standard, dialectic, and defective speech patterns.
- 2110. Structure and Function of the Speech and Hearing Mechanisms. (2-0-2) F.** Basic neurologic, anatomical and physiologic concepts. Students observe in the clinic.
- 2140. Voice Science. (3-0-3) S.** Applies basic acoustic and physiologic information to normal speech: speech sounds, pitch, loudness, quality, and rate. Students observe in the clinic.
- 2210. Childhood Development of Speech. (3-0-3) S.** Normal development and measurement of spoken language abilities in children.

- 2800. Speech Pathology. (3-0-3) S, Su.** A study of the pathology, etiology and treatment of articulatory, voice, hearing, stuttering, and organically based speech disorders.
- 2830. Evaluation and Therapy. (2-0-2) S.** Training in specific diagnostic techniques for speech disorders; planning specific corrective techniques. Students observe in the clinic. Prerequisite: Speech Pathology and Audiology 2800 or permission of the instructor.
- 3250. Language Disorders. (3-0-3) F.** Evaluation, and correction for language disorders associated with developmental delay C.N.S. involvements, and cultural deprivation. Prerequisites: Speech Pathology and Audiology 2210, 2800, 2830 or permission of the instructor.
- 3300. Voice and Articulation Disorders. (3-0-3) F.** Nature, causes and treatment of voice and articulation disorders. Prerequisites: Speech Pathology and Audiology 2800, 2830 or permission of the instructor.
- 3410. Stuttering. (2-0-2) F.** Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated. Prerequisites: Speech Pathology and Audiology 2800, 2830 or permission of the instructor.
- 3500. Organic Disorders of Speech. (3-0-3) S.** Etiology and correction of organic disorders of speech; cleft palate, cerebral palsy, and laryngectomy. Aphasia will be included briefly. Prerequisites: Speech Pathology and Audiology 2800, 2830, 3300 or permission of the instructor.
- 3600. Audiometry and Hearing Aids. (3-0-3) S.** Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests. Prerequisites: Speech Pathology and Audiology 2800, 2830, or permission of the instructor.
- 4700. Clinical Practice. (Arr.-Arr.-1 to 3)** Supervised work with a variety of speech and hearing defects; forth-five clock hours per semester hour's credit. Prerequisites: Speech Pathology and Audiology 2800, 2830; permission of the Director of the Speech and Hearing Clinic.
- 4740. Independent Study. (Arr.-Arr.-3) (May be taken twice.)** Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Speech Correction for the Classroom Teacher. (3-0-3) F.** Classification, incidence, prevention, and classroom management of defective speech and nature of speech correction services.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5250. Language Disturbances. (2) S.** Language patterns of children and adults with oral communication impairments. Emphasis on the diagnostic and corrective procedures. Prerequisites: Speech Pathology and Audiology 2210, 2800, 3500; Psychology 4790 or permission of the instructor.
- 5350. Articulation Disorders. (2) F.** Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and correction are stressed. Prerequisite: Speech Pathology and Audiology 3300.

- 5370. Voice Disorders. (2) S.** Advanced study of etiology and correction of functional and organic voice problems. Voice pitch, quality, and intensity. Prerequisite: Speech Pathology and Audiology 3300.
- 5410. Stuttering. (3) S.** Advanced study of the problem; integration of prominent theories and treatment in stuttering; analysis of significant findings and trends in research on stuttering. Prerequisite: Speech Pathology and Audiology 3410.
- 5500. Organic Speech Disorders. (4) F.** Diagnosis and therapy for aphasia and related disorders. The equivalent of two hours of testing practicum per week is required. Prerequisite: Speech Pathology and Audiology 3500 or permission of the instructor.
- 5600. Audiometry. (3) F.** Advanced study of the assessment of hearing losses. Emphasis on a functional test battery, diagnostic problems, and hearing aid selection. Prerequisite: Speech Pathology and Audiology 3600.
- 5651. Aural Rehabilitation I. (2) F.** Advanced study of rehabilitation for the hard-of-hearing. Prerequisites: Speech Pathology and Audiology 3600, 5600, or permission of the instructor.
- 5652. Aural Rehabilitation II. (3) S.** Continued study of aural rehabilitation including medical, psychological, vocational aspects and amplification systems. Prerequisites: Speech Pathology and Audiology 3600, 5600, 5651.
- 5653. Advanced Principles of Audiology. (1-4) On demand.** Advanced principles of hearing habilitation and rehabilitation, may include hearing conservation, instrumentation, psychoeducational aspects of hearing disorders and related topics. May be repeated for a maximum of six semester hours by permission of the chairman of the department.
- 5700. Advanced Clinical Practice. (1 to 5)** Supervised corrective work with clients with speech and/or hearing defects. Prerequisite: Speech Pathology and Audiology 4700; permission of the Director of the Speech and Hearing Clinic.
- 5900. Introduction to Graduate Study in Speech Pathology and Audiology. (4) F, Su.** Introduction to research methodology and experimental design. Prerequisite: Permission of the instructor.
- 5920. Research Procedures in Speech Science. (3) (Offered on demand)** Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology. Prerequisite: Speech Pathology and Audiology 5900.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

STUDENT LEADERSHIP

- 3000. Student Government Leadership. (2-0-2)** May be taken Pass-Fail only. Restricted to sophomores and juniors. A seminar in student government with emphasis on governance in higher education, the administration of Eastern Illinois University, financing of higher education, the student's role in governance, and the development of leadership skills.

STUDENT TEACHING

UNDERGRADUATE COURSES

The number of semester hours of student teaching required for graduation varies with the student's curriculum. A student enrolled in elementary education — special education is required to earn 15 semester hours of credit in student teaching with 6 semester hours required in elementary student teaching and 9 semester hours in special education student teaching. A student enrolled in elementary or junior high school education must enroll for a minimum of 8 semester hours and may enroll for a maximum of 15 semester hours of credit in student teaching.

A student enrolled in a high school curriculum is required to earn 12 semester hours in student teaching which represents both minimum and maximum credit that may be earned in student teaching. Questions pertaining to student teaching should be directed to the subject area coordinator or the Director of Student Teaching. (Pass-Fail only)

- 4301. Teaching Practicum in the Elementary and Junior High School (Arr.-Arr.-1) F, S.
- 4302. Teaching Practicum in the Elementary and Junior High School. (Arr.-Arr.-2) F, S.
- 4304. Teaching Practicum in the Elementary and Juntio High School. (Arr.-Arr.-4) F, S.
- 4308. Teaching Practicum in the Elementary and Junior High School. (Arr.-Arr.-8) F, S.
- 4401. Teaching Practicum in the Secondary School. (Arr.-Arr.-1) F, S.
- 4402. Teaching Practicum in the Secondary School. (Arr.-Arr.-2) F, S.
- 4404. Teaching Practicum in the Secondary School. (Arr.-Arr.-4) F, S.
- 4408. Teaching Practicum in the Secondary School. (Arr.-Arr.-8) F, S.

THEATRE ARTS

UNDERGRADUATE COURSES

- 1101, 1102. Theatre Practicum. (Arr.-Arr.-1 each course) Individual work and study in the various activities of theatrical production. These courses may be taken more than once, but only two semester hours of credit may be counted toward graduation.
- 1132. Voice and Phonetics. (3-0-3) A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.
- 1133. Beginning Interpretation. (3-0-3) Designed to introduce the student to the study of literature through the medium of oral performance, where the medium is itself a process of defining.
- 2240. Introduction to the Theatre. (3-0-3) A general introduction to theatrical and dramatic art.
- 2244. Acting. (3-3-3) F, S. A study of the methods of learning and teaching techniques for the actor.
- 2257. Technical Direction. (3-3-3) F, S. Construction and painting of scenery properties; theory and technique and stage lighting.
- 2281. Summer Theatre. (Arr.-Arr.-6 to 9) Su. This course is designed to give practical, comprehensive experience in theatre arts. Credit for six or nine semester hours may be earned in one summer. However, a maximum of nine semester hours total from Theatre Arts 2281 and/or 4810 may be counted toward a bachelor's degree.

- 3333. Advanced Interpretation. (3-0-3) F, S.** Interpretation of literature in traditional and experimental styles. Introduction to the aesthetics of Readers and Chamber Theatre. Prerequisite: Theatre Arts 1133 or permission of the instructor.
- 3357. Scene Design. (3-3-3) F.** Consideration of the design sequence from analysis of the script to the completion of production drawings; practical experience. Prerequisite: Theatre Arts 2257 or permission of the instructor.
- 3358. Design and History of Costume. (3-3-3) S.** History of Costume from the early Egyptians to the present day. Costume design for theatrical production.
- 3431. Children's Dramatics. (3-0-3) F, S.** Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.
- 3445 (4445). Directing. (3-3-3) F, S.** The study and actual production of the play. Central emphasis is placed on directing.
- 3751, (4751). Theatre History to 1650. (3-0-3) F, Su.** The origin of theatre as a social force and an artistic form in the Classical Greek, Roman, Medieval, Elizabethan, and Neo-Classical French Periods.
- 3752, (4752). Theatre History, 1650 to the Present. (3-0-3) S, Su.** The history of the theatre and its literature from the middle of the Seventeenth Century to present.
- 3920, (4920). Oral Interpretation of Poetry. (3-0-3) S, Su.** A study of the experimental nature of poetry and the recreation of the experience through oral performance. General forms and the works of two or three poets will be considered. Prerequisites: Theatre Arts 1133, 3333, or permission of the instructor.
- 3960, (4960). Oral Interpretation of Prose Fiction. (3-0-3) F, Su.** A study of four Twentieth Century novelists through close literary analysis and oral performance. Particular attention will be given to the problems of point-of-view. Prerequisites: Theatre Arts 1133, 3333, or permission of the instructor.
- 3990. Summer Study in Ireland. (0-0-6) Su.** Independent research in Theatre Arts. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4810. Summer Theatre. (Arr.-Arr.-6 to 9) Su.** The course is designed to give practical, comprehensive experience in dramatic art. Credit for six or nine semester hours may be earned in one summer. However, a maximum of nine semester hours total from Theatre Arts 2281 and/or 4810 may be counted toward a bachelor's degree. Six semester hours may be applied toward a master's degree only if credit in either Theatre Arts 2281 or 4810 has not been counted toward a bachelor's degree.

ZOOLOGY

UNDERGRADUATE COURSES

- 1010. General Zoology. (2-4-4) A** study of tissues, organs and organ-systems, followed by a survey of the animal kingdom. Prerequisite: Life Science 1000 or equivalent.
- 2000. Mammalian Anatomy. (0-6-3) A** study of the principles of mammalian anatomy. Prerequisite: Life Science 1000; Zoology 1010 highly recommended.

- 2100. Comparative Vertebrate Anatomy. (2-4-4) F, Su.** A study of structures and their evolution in chordates. Laboratory work with a variety of forms. Prerequisite: Zoology 1010.
- 2200. Embryology. (2-4-4) S, Su.** Morphological and chemical changes of animal development from germ cell formation through early organogenesis. Laboratory studies primarily of the vertebrates, frog, chick and pig. Prerequisites: Zoology 1010 and one additional course in zoology; Zoology 2100 recommended.
- 3000. Human Physiology. (2-2-3)** A study of the basic physiological principles is followed by experimental studies of the organ-systems of man. Prerequisite: Life Science 1000 or a course in biochemistry.
- 3100. Principles of Animal Physiology. (2-4-4)** A study of basic principles underlying the functions of protoplasm and organ-systems. Prerequisite: Nine semester hours of zoology. Chemistry requirement should be completed.
- 3150. Heredity, Evolution and Society. (2-0-2) F. On demand.** The application of heredity and evolutionary principles to pertinent contemporary social problems. Prerequisite: Life Science 1000 or equivalent.
- 3200. Genetics. (2-2-3)** The fundamental principles of genetics (classical, molecular, and population) stressing applications to all organisms. Prerequisite: Zoology 1010. Not open to those with credit or registration in Botany 3361.
- 3300. Vertebrate Natural History. (2-3-3)** The natural history of vertebrates including distribution, reproduction, economic importance, evolution, and classification. Prerequisite: Zoology 1010.
- 3600. Parasitology. (2-2-3) F, Su.** Means of identification, life histories, and methods of control of the more common animal parasites, including those of man. Prerequisites: Zoology 1010 and one other zoology course.
- 3700. Entomology. (2-4-4) F, Su.** The morphology, classification, ecology and economic importance of insects. Methods of collection and specimen preparation are included. Prerequisite: Zoology 1010.
- 4400. Independent Study. (Arr.-Arr.-1 to 3)** An outline of the proposed work must be approved by the department head prior to registration. Prerequisite: Fifteen semester hours of zoology and permission of instructor and chairman of the department. May be taken for a maximum of four semester hours.
- 4490. Seminar in Zoology. (0-2-1) F, S.** A seminar in current zoological literature. Prerequisite: Nine semester hours of zoology. May be taken twice for credit with permission of the chairman of the department.
- 4510. Microtechnique. (0-6-3) S.** Methods and practice in the preparation of microscope slides of animal tissues. A collection of slides may be made for later use in teaching. Prerequisite: Sixteen semester hours of zoology.
- 4540. Histology. (1-4-3)** The structure, functions, and development of tissues, primarily human. Laboratory study is combined with discussion of the cytological basis for understanding normal and abnormal structure in all vertebrates. Prerequisite: Zoology 2200; organic chemistry recommended.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Cytology. (1-4-3) F.** A study of the structure and function of cells and their component organelles; cytochemical theory and techniques. Prerequisite: Zoology 4510 or permission of the instructor. Zoology 4540 recommended.
- 4760. Invertebrate Zoology. (2-2-3) S.** The phylogeny, morphology, physiology, ecology, geographical distribution and economic importance of invertebrate animals. Prerequisite: Sixteen semester hours of zoology.

- 4764, (5260). Invertebrate Field Studies. (2-3-3) S, Su.** Identification, relationships, life histories and adaptations of regional invertebrates not covered fully in other courses. Aquatic and soil forms emphasized. Prerequisite: Sixteen semester hours of zoology; Zoology 4760 recommended.
- 4766. Advanced Entomology. (2-4-4) S.** A study of the common families of the major insect orders. Prerequisite: Zoology 3700.
- 4769. Fisheries Management. (1-4-3) F, Su.** Fundamentals of anatomy, classification, life histories and conservation of fish. Field work and study of local fishes are stressed. Prerequisite: Zoology 3300.
- 4770. Ichthyology. (1-4-3) S.** Advanced study of the evolution, anatomy, taxonomy and distribution of the fishes of the world. Prerequisite: Sixteen semester hours of zoology, including Zoology 3300.
- 4772. Herpetology. (2-3-3) S.** Phylogeny, adaptations, ecology, distribution and identification of amphibians and reptiles. Prerequisites: Zoology 2000 or 2100, 3300.
- 4774. Ornithology. (2-3-3) S.** The life histories, adaptations, and structure of birds. Emphasis upon migration, songs, nests and importance of our native species. Prerequisite: Zoology 3300.
- 4777. Mammalogy. (2-3-3) F.** A study of mammals with emphasis on classification, distribution, natural history and ecology. Prerequisites: Zoology 2000 or 2100, 3300.
- 4800. Terrestrial Ecology. (2-3-3) S, Su.** Interrelationships among animal populations, biotic communities, and physical environments in terrestrial ecosystems. Prerequisites: Life Science 3010 and eight semester hours of zoology.
- 4810. Limnology. (1-4-3) F.** The physical environment and biological communities involved in fresh water ecosystems. Prerequisites: One year of chemistry; ten semester hours of zoology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

- 5150. Seminar. (1)** Enrollment required for all graduate students; may be repeated, with maximum of three semester hours credit applied to graduate program.
- 5200. History of Biology. (2) S.** The development of biology from pre-history to date; contributions by various civilizations; the growth of specific fields. Prerequisite: Sixteen semester hours of biological science.
- 5210. Organic Evolution. (3) S.** Fundamental principles of organic evolution stressing historical fact, evidences for and processes common to all biota. Prerequisite: Sixteen semester hours of biological science.
- 5225. Systematics. (3) S.** A study of the methods and principles of animal taxonomy, including speciation and zoogeography. Prerequisite: Sixteen semester hours of biological science.
- 5235. Paleozoology. (3) F.** Laboratory and field studies of animal life of the past. Prerequisites: Zoology 4760, 4800, or permission of the instructor.
- 5255. Protozoology. (3) F.** The morphology, physiology, ecology and life histories of free living and parasitic protozoa. Includes laboratory and field studies. Prerequisites: Eight semester hours of zoology and eight semester hours of chemistry.
- 5355. Arthropodology. (3) F.** A study of arthropods exclusive of insects, with emphasis on

terrestrial forms. Prerequisite: Sixteen semester hours of zoology; Zoology 3700 and 4760 recommended.

- 5375. Wildlife Management. (3) F.** The principles of wildlife management with emphasis on terrestrial game animals; their ecology, life histories and conservation. Prerequisite: Eight semester hours of zoology including Zoology 3300; Zoology 4774 and 4800 recommended.
- 5380. Animal Behavior. (3) S.** Theoretical and experimental studies of the reactions of animals to various stimuli. Prerequisite: Sixteen semester hours of zoology, or permission of the instructor.
- 5400. Cell Physiology. (4) S.** A study of the fundamental physical and chemical processes which underlie cellular structure and function. Prerequisites: Zoology 3100 and one course in organic chemistry.
- 5410. Developmental Zoology. (4) S.** An incisive study emphasizing both classical and recent contributions to the understanding of development of living embryos. Prerequisites: Sixteen semester hours of biological science including Zoology 2200 and 2100 or 2000. Organic chemistry required, biochemistry recommended.
- 5420. Endocrinology. (4) S.** A study of the endocrine glands, the action of hormones, and the general features of the endocrine system. Prerequisites: Sixteen semester hours of zoology, and at least one course in organic chemistry.
- 5900. Methods in Biological Research. (2) F.** The principles of biological research, including review of literature, defining and organizing problems, and effective presentation of data. Required for all beginning graduate students.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5990 and 5950.





XI. STATISTICS

SUMMARY OF ENROLLMENTS

Fall Quarter, 1972, through Summer Term, 1973

UNIVERSITY

Full-Time, On Campus		Fall	Wtr.	Spg.	Sum.*
Seniors	Men	780	912	899	564
	Women	794	840	859	628
	Total	1574	1752	1758	1192
Juniors:	Men	1058	963	940	381
	Women	1084	1007	1007	550
	Total	2142	1970	1947	931
Sophomores:	Men	776	708	634	179
	Women	1086	971	851	284
	Total	1862	1679	1485	463
Freshmen:	Men	879	799	689	179
	Women	1235	1105	950	180
	Total	2114	1904	1639	359
Graduates: Fifth Year	Men	229	235	227	409
	Women	95	99	101	295
	Total	324	334	328	704
Sixth Year	Men	11	7	15	30
	Women	1	4	6	16
	Total	12	11	21	46
Total: (full-time)	Men	3733	3624	3404	1742
	Women	4295	4026	3774	1953
	Total	8028	7650	7178	3695

		Fall	Wtr.	Spg.	Sum.*
Part-Time, On Campus					
Seniors:	Men	28	44	38	38
	Women	19	29	39	27
	Total	<hr/> 47	<hr/> 73	<hr/> 77	<hr/> 65
Juniors:	Men	18	10	17	20
	Women	22	22	18	18
	Total	<hr/> 40	<hr/> 32	<hr/> 35	<hr/> 38
Sophomores:	Men	8	10	12	11
	Women	13	14	9	8
	Total	<hr/> 21	<hr/> 24	<hr/> 21	<hr/> 19
Freshmen:	Men	7	9	8	12
	Women	19	21	21	13
	Total	<hr/> 26	<hr/> 30	<hr/> 29	<hr/> 25
Graduates: Fifth Year	Men	176	149	185	55
	Women	177	159	186	73
	Total	<hr/> 353	<hr/> 308	<hr/> 371	<hr/> 128
Sixth Year	Men	58	48	62	11
	Women	34	32	31	11
	Total	<hr/> 92	<hr/> 80	<hr/> 93	<hr/> 22
Workshops:	Men	—	—	—	157
	Women	—	—	—	267
	Total				<hr/> 424
Totals: (part-time)	Men	295	270	322	304
	Women	284	277	304	417
	Total	<hr/> 579	<hr/> 547	<hr/> 626	<hr/> 721
Total On Campus	Men	4028	3894	3726	2046
	Women	4579	4303	4078	2370
	Total	<hr/> 8607	<hr/> 8197	<hr/> 7804	<hr/> 4416
Full-Time Equivalent (resident)		8307	7902	7476	3969

Part-Time, Off Campus

	Men	78	189	232	—
	Women	200	128	204	—
	Total	278	317	436	—
Total University:	Men	4106	4083	3958	2046
	Women	4779	4431	4282	2370
	Total	8885	8514	8240	4416
Full-Time Equivalent		8400	8007	7626	3969

Laboratory School

	Boys	239	246	237	119
	Girls	247	246	246	105
	Total	486	492	483	224

SUMMARY OF DEGREES AWARDED

September 1, 1972, through August 31, 1973

Degree	Nov. 1972	Mar. 1973	May 1973	Aug. 1973
Specialist in Education	3	1	1	3
Master of Arts	10	5	18	31
Master of Business Administration	6	7	14	7
Master of Science	7	6	10	25
Master of Science in Education	33	12	66	130
Master of Science in Library Science	1	1	8	8
Bachelor of Arts	9	19	36	39
Bachelor of Fine Arts	1	5	6	6
Bachelor of Music	—	1	8	3
Bachelor of Science	34	41	106	58
Bachelor of Science in Business	39	36	136	62
Bachelor of Science in Education	215	234	557	248
Bachelor of Science in Home Economics	6	8	12	9
Bachelor of Science in Industrial Technology	1	4	11	2
Bachelor of Science in Recreation	6	6	11	11
Total	371	386	1000	642

*Summer — 8-week term



XII. FACULTY, 1973-74

EASTERN ILLINOIS UNIVERSITY

Charleston

(Date of joining staff in parentheses)

ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

President

Gilbert C. Fite, Ph.D., University of Missouri (1971)

ACADEMIC AFFAIRS

Provost and Vice President For Academic Affairs

Peter R. Moody, Ph.D., Cambridge University (1967)

COLLEGE OF ARTS AND SCIENCES

- Lawrence A. Ringenberg, Ph.D., The Ohio State University, Dean (1947) (On sabbatical leave, fall semester)
Ken E. Hadwiger, Ph.D., University of Oklahoma, Assistant Dean (1964) (Acting Dean fall semester)
Jon Laible, Ph.D., University of Illinois, Acting Assistant Dean (1964)
Willa M. Hemmons, Ph.D., Case Western Reserve University, Chairman, Afro-American Studies (1973)
William M. Cloud, Ph.D., University of Wisconsin, Chairman, Pre-Engineering Studies (1962)
Robert J. Smith, Ph.D., The University of Iowa, Chairman, Pre-Medical Studies (1955)
Raymond A. Plath, Ph.D., University of Wisconsin, Chairman, Social Science Studies (1946)
Leonard Durham, Ph.D., University of Illinois, Director, Division of Life Sciences (1955)

GRADUATE SCHOOL

- Lavern M. Hamand, Ph.D., University of Illinois, Dean (1957)

SCHOOL OF BUSINESS

- James F. Giffin, Ph.D., Northwestern University, Dean (1947)

SCHOOL OF EDUCATION

- Harry J. Merigis, Ed.D., University of Oklahoma, Dean (1954)
George W. Schlinsog, D.Ed., University of Oregon, Assistant Dean for Administration (1967)
Charles Kofoid, Ed.D., University of Nebraska, Assistant Dean for Instruction (1970)
Robert Zabka, Ph.D., Northwestern University, Director of Student Teaching (1964)
Donald G. Gill, D.Ed., University of Illinois, Principal of the Laboratory School (1960)
Charles L. Joley, Ed.D., University of Illinois, Coordinator, Vocational-Technical Education (1970)
Russell L. Nichols, M.S., Purdue University, Coordinator of Area Services (1973)

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

- Walter S. Lowell, Ed.D., Michigan State University, Dean (1961)

SCHOOL OF HOME ECONOMICS

- Mary Ruth Swope, Ed.D., Columbia University, Dean (1962)

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

- Wayne D. Coleman, D.Ed., University of Northern Colorado, Dean (1957)

SCHOOL OF MUSIC

Robert Y. Hare, Ph.D., The University of Iowa, Dean (1965)

Rhoderick E. Key, M.M.Ed., Southern Illinois University, Assistant to Dean,
(1966)

LIBRARY SERVICES

B. Joseph Szerenyi, D.Pol.S., Elizabeth University, Hungary, Director (1967)

CONTINUING EDUCATION AND COMMUNITY SERVICES

George Hackler, Jr., M.S. in Ed., Eastern Illinois University, Director (1967)

AUDIO-VISUAL CENTER

Gene Scholes, Ph.D., Southern Illinois University, Director (1966)

Floyd A. Landsaw, Ed.D., Indiana University, Instructional Designer (1965)

BOARD OF GOVERNORS DEGREE PROGRAM

Donald F. Tingley, Ph.D., University of Illinois, Coordinator (1953)

STUDENT ACADEMIC SERVICES

Samuel J. Taber, Ph.D., Southern Illinois University, Dean (1960)

Academic Advisement

William G. Hooper, M.S.Ed., Illinois State University, Director (1962)

Thomas E. McDevitt, M.A., Southern Illinois University, Advisor (1966)

Robert G. Winkleblack, M.S. in Ed., Eastern Illinois University, Advisor (1966)

Calvin B. Campbell, M.A., University of New Mexico, Advisor (1966)

Janet F. Holley, M.S. in Ed., Eastern Illinois University, Advisor (1968)

Vanlou Trank, M.S., Indiana University, Advisor (1970)

Arthur L. Snider, M.S., Ball State University, Advisor (1970)

Janice L. Rambo, M.S. in Ed., Western Illinois University, Advisor (1972)

Admissions, School and College Relations

Murray R. Choate, M.S. in Ed., Southern Illinois University, Director (1962)

Roger L. Haberer, M.S. in Ed., Eastern Illinois University, Associate Director
(1972)

Marvin Shade, M.S. in Ed., Eastern Illinois University, Assistant Director
(1973)

Cynthia D'Andre, M.Ed., Kent State University, Counselor (1973)

Placement

James F. Knott, Ed.D., Northern Illinois University, Director (1957)

Robert E. Jones, M.S., Indiana State University, Assistant Director (1963)

Records

James E. Martin, M.A., University of Illinois, Registrar (1968)

John H. Conley, M.S. in Ed., Eastern Illinois University, Assistant Registrar (1972)

Registration

Michael Taylor, Chief Director (1974)

Edward T. Graening, M.S., University of Illinois, Director (1967)

David Sardella, M.S., Mankato State College, Assistant Director (1972)

STUDENT AFFAIRS

Vice President For Student Affairs

Glenn D. Williams, Ph.D., The Ohio State University (1960)

STUDENT PERSONNEL SERVICES

Kenneth M. Kerr, Ph.D., Indiana University, Dean (1971)

Mary P. Rogers, Ed.D., Indiana University, Associate Dean (1966)

James E. Johnson, M.A., New York University, Assistant Dean (1970)

Counseling and Testing Services

Herbert C. Bartling, M.Ed., University of Texas, Acting Director (1969)

John E. Grimes, Jr., M.A., Southern Illinois University, Counseling Psychologist (1968) (On sabbatical leave, fall semester)

David T. Baird, M.S. in Ed., Indiana University, Counselor (1959)

Claud D. Sanders, Ed.D., University of Illinois, Counselor (1966)

Financial Aids

Ross C. Lyman, M.S., Indiana State University, Director (1961)

Sue C. Sparks, M.S. in Ed., Eastern Illinois University, Associate Director (1966)

Lois M. Kramer, M.A., Boston University, Administrative Assistant (1966)

Elmer Pullen, B.S., Eastern Illinois University, Counselor (1970)

Health Services

Jerry D. Heath, M.D., University of Illinois, Director (1956)

Gilbert T. Ransom, M.D., Vanderbilt University, University Physician (1969)

Howard V. Zeigel, M.D., University of Tennessee, University Physician (1972)

International Students

Eulalee Anderson, M.S.Ed., Eastern Illinois University, Advisor (Part-time) (1973)

Student Activities and Organizations

William L. Clark, M.S. in Ed., Eastern Illinois University, Director (1968)

University Union

- Herbert L. Brooks, B.S. in Ed., Eastern Illinois University, Director (1966)
 Edwin T. McCawley, Assistant Director (1969)
 Stephen Grove, B.S. in Bus., Eastern Illinois University, Assistant Director (1972)
 Phillip Lindberg, B.S., Eastern Illinois University, Director of Arrangements (1973)

Veterans Services

- William D. Miner, Ph.D., Indiana University, Director (1950)

STUDENT HOUSING

- Donald A. Kluge, D.Ed., Indiana University, Dean (1957)
 Louis V. Hencken, M.S. in Ed., Eastern Illinois University, Associate Dean (1967)
 Richard G. Enochs, M.S. in Ed., Eastern Illinois University, Assistant Dean and Director, Married Student Housing (1969)
 Mary M. Smith, M.S., Indiana University, Administrative Assistant (1970)

Residence Hall Food Service

- Beverly Sterling, M.S., in Ed., Eastern Illinois University, Director (1972)

Residence Hall Counselors

- Jo Anne Stuebe, M.S. in Ed., Eastern Illinois University (1962)
 Barbara A. Busch, Adv.C., University of Illinois (1964)
 Doris J. Enochs, M.S. in Ed., Eastern Illinois University (1967)
 Bessie M. Fredericks, M.A., University of Missouri (1967)¹
 Margaret J. Reed, Adv.C., University of Illinois (1967)
 Jurel V. Jackson, Ed.S., Eastern Illinois University (1968)
 Kristan Jensen, B.S., Eastern Illinois University (1970)
 Diane E. deLaet, M.Ed., University of Miami (1971)
 Keith Kohanzo, M.S. in Ed., Eastern Illinois University (1971)
 Sherry L. Meddock, M.S., Indiana University (1972)
 Timothy L. Burke, M.S., Eastern Illinois University (1972)
 Mickle J. Macaulay, M.S., Iowa State University (1972)
 Terrence Webb, M.A., University of North Dakota (1972)
 Harry Nicklaus, M.S.*

¹ Resigned

BUSINESS SERVICES

Vice President

- Harley J. Holt**, M.S., University of Wisconsin (1963)
 Marion L. Zane, M.S. in Ed., Eastern Illinois University, Controller (1965)
 Paul E. Hipple, B.S., Indiana University, Internal Auditor (1968) (On leave)
 John H. Morrissey, M.S. in Ed., Eastern Illinois University, Budget Officer (1968)
 Everett R. Alms, Superintendent of Physical Plant (1965)

ADMINISTRATIVE AFFAIRS

Vice President

Martin Schaefer, Ph.D., The University of Iowa (1958)

Wayne S. Owens, Ed.D., Indiana University, Director, Institutional Research and Administrative Associate (1969)

Robert H. Weidhuner, B.S., Southern Illinois University, Assistant, Administrative Studies (1966)

Computer Services

Roland D. Spaniol, Ph.D., The University of Iowa, Director (1960)

Nancy J. Crewell, M.S., Eastern Illinois University, Assistant (1971)

AFFIRMATIVE ACTION

Jimmie Franklin, Ph.D., University of Oklahoma, Director (1970)

ATHLETICS

Tom Katsimpalis, Ed.D., University of Northern Colorado, Director (1959)

UNIVERSITY RELATIONS AND SPECIAL SERVICES

UNIVERSITY RELATIONS AND ALUMNI SERVICES

Kenneth E. Hesler, M.Ed., University of Illinois, Director (1951)

Harrison Read, B.S. in Ed., Eastern Illinois University, Director, Information and Publications (1964)

Charles Titus, M.A., Eastern Illinois University, Assistant Director, Alumni Services and Assistant, University Relations (1972)

David Kidwell, B.S., Eastern Illinois University, Director, Sports Information and Assistant, Information and Publications (1972)

INSTRUCTIONAL STAFF

* Denotes department chairmen

** Denotes acting department chairmen

A

Dewey F. Abell, M.L.S., University of California, Assistant Professor, Library. (1969)

David C. Ahlstrom, Ph.D., Eastman School of Music, Associate Professor, Musical Studies. (1967) (On leave)

Charles Alexander, M.M., University of Illinois, Instructor, Musical Performance. (1973)

Dewey H. Amos, Ph.D., University of Illinois, Professor, Geography and Geology (1965)

- Leslie T. Andre, D.Pol.S., Franz Josef Royal University, Associate Professor Library. (1962)
- Richard D. Andrews, Ph.D., University of Illinois, Associate Professor, Zoology. (1966)
- Rudolph D. Anfinson, Ph.D., University of Minnesota, Professor, Educational Psychology and Guidance. (1940)
- David P. Appleby, Ph.D., Indiana University, Professor, Musical Performance*. (1971)
- Mary B. Armstrong, M.A., University of Illinois, Assistant Professor, Speech Pathology and Audiology. (1968) (On sabbatical leave 1973-74)
- Charles B. Arzeni, Ph.D., University of Michigan, Associate Professor, Botany. (1965)
- Mary E. Atchison, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education for Women. (1969)
- Dennis W. Aten, M.S.Ed., Eastern Illinois University, Assistant Professor, Physical Education for Men. (1968)
- D. Ferrel Atkins, Ph.D., University of Kentucky, Professor, Mathematics. (1958)
- Martha L. Atteberry, M.Ed., University of Illinois, Assistant Professor, Laboratory School. (1967)
- Alan R. Aulabaugh, Ph.D., The University of Iowa, Professor, Musical Studies.* (1957)

B

- Jumuna Bai, Ph.D., Wayne State University, Associate Professor, Sociology-Anthropology. (1967) (On sabbatical leave, fall semester)
- Zeno E. Bailey, Ph.D., The Ohio State University, Professor, Botany. (1969)
- Weldon N. Baker, Ph.D., Columbia University, Professor, Chemistry. (1958)
- Harold E. Balbach, Ph.D., University of Illinois, Assistant Professor, Botany. (1966)
- Wesley E. Ballsrud, M.A., The University of Iowa, Assistant Professor, Accountancy.* (1964)
- Judith Barford, A.B., Marquette University, Faculty Assistant, Enrichment of Teacher Competencies Project. (Part-time) (1973)
- Robert Barford, Ph.D., Indiana University, Assistant Professor, Philosophy. (1968)
- Joel Barkmeier, M.A., University of South Dakota, Assistant Professor, Speech Pathology and Audiology and Education. (1973)
- Dennis E. Baron, Ph.D., University of Michigan, Assistant Professor, English. (1971)
- Anita M. Barta, M.S., University of New Mexico, Instructor, Physical Education for Women. (1970)
- Lawrence W. Bates, M.S., Brigham Young University, Assistant Professor, Economics. (1970)
- Kandy Baumgardner, Ph.D., Utah State University, Assistant Professor, Zoology. (1973)
- Steven A. Becker, Ph.D., The University of Iowa, Associate Professor, Botany. (1968)
- Michael J. Belcher, M.A., Pacific Lutheran University, Assistant Professor, Psychology. (1974) (Part-time, spring semester).
- Randall H. Best, Ph.D., Southern Illinois University, Associate Professor, Psychology. (1968)
- Mary A. Bialek, M.Ed., Pennsylvania State University, Assistant Professor, Musical Studies. (1969)
- Ruth D. Biggs, B.A., Eastern Michigan University, Faculty Assistant, Laboratory School. (1972)

- Cyrus E. Blair, D.Ed., University of Oregon, Associate Professor, Elementary and Junior High School Education. (1970)
- Clarence Blanchette, M.A., The University of Iowa, Assistant Professor, Theatre Arts. (1973)
- David N. Block, M.A., Brooklyn College, Assistant Professor, English. (1972)
- Paul G. Bodine, M.A., Washington University, Assistant Professor, Art. (1966)
- Daniel J. Bolin, M.Ed., University of Illinois, Assistant Professor, Health Education. (1970)
- Mark R. Bomball, Ph.D., University of Mississippi, Assistant Professor, Management. (1969)
- Fred J. Bouknight, Ed.D., Columbia University, Professor, Musical Studies. (1959)
- Earl W. Boyd, Ph.D., The University of Iowa, Professor, Musical Performance. (1947)
- Karen J. Braun, M.F.A., Temple University, Assistant Professor, Art. (1968)
- Suzan G. Braun, M.F.A., Southern Illinois University, Assistant Professor, Art. (1970)
- Peggy L. Brayfield, Ph.D., Southern Illinois University, Assistant Professor, English. (1970)
- Marvin L. Breig, Ph.D., University of Oklahoma, Associate Professor, Physics. (1963)
- James M. Brinkman, Ed.D., University of Illinois, Associate Professor, Musical Studies. (1970)
- Martha Brookfield, B.S., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- Robert E. Brown, M.A., Niagara University, Assistant Professor, English. (1969)
- Stephen Brown, M.S. in Ed., Eastern Illinois University, Instructor, Home Economics. (1974) (Part-time, spring semester).
- Rose Ann Bryce, D.Ed., University of Northern Colorado, Associate Professor, Business Education and Administrative Office Management. (1969)
- Ewen L. Bryden, Ph.D., The Ohio State University, Associate Professor, Recreation.* (1969)
- David H. Buchanan, Ph.D., University of Wisconsin, Assistant Professor, Chemistry. (1971)
- William F. Buckellew, Ed.D., University of Arkansas, Professor, Physical Education for Men.* (1962)
- Rodney Buffington, M.S. in Ed., Eastern Illinois University, Instructor, Art and Education. (1969)
- Donald Burcham, B.S., Eastern Illinois University, Faculty Assistant, Management. (1973) (Part-time)
- Ronald L. Butler, B.S., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- William A. Butler, Ph.D., University of Illinois, Professor, Physics.* (1970)
- Robert Y. Butts, M.S., Virginia Polytechnic Institute and State University, Assistant Professor, Home Economics. (1971)

C

- Betty J. Campbell, M.S. in Ed., Eastern Illinois University, Assistant Professor, Business and Education. (1969)
- Eugene R. Carey, Ph.D., The University of Iowa, Associate Professor, Management. (1968)
- Joseph E. Carey, Ed.D., Indiana University, Professor, Elementary and Junior High School Education. (1958)
- Robert A. Carey, P.E.D., Indiana University, Professor and Coordinator of Graduate Studies, Physical Education for Men. (1953) (On sabbatical leave, fall semester)

- Gerald F. Carr, Ph.D., University of Wisconsin, Associate Professor, Foreign Languages. (1968)
- William B. Cash, Ph.D., Purdue University, Associate Professor, Speech-Communications. (1964)
- Gloria Ceide-Echevarria, Ph.D., University of Illinois, Associate Professor, Foreign Languages. (1965)
- Judith K. Chapman, B.S., The Ohio State University, Faculty Assistant, Home Economics. (1973) (Part-time)
- Max K. Chapman, Ph.D., Kent State University, Assistant Professor, Zoology. (1972)
- Stanley E. Chapman, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (1973)(Part-time)
- Dayton K. Chase, D.Ed., University of North Dakota, Professor, Business Education and Administrative Office Management. (1968)
- Carrie C. Chen, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1968)
- Robert P. Chen, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1968)
- Yung Ping Chen, Ph.D., University of Maryland, Professor, Political Science. (1966)
- Earl D. Christman, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech-Communications. (1973) (Part-time)
- Gary L. Clark, M.B.A., Eastern Illinois University, Instructor, Marketing. (1972)
- William M. Cloud, Ph.D., University of Wisconsin, Professor, Physics. (1962)
- H. Logan Cobb, Ph.D., University of Missouri, Professor, Foreign Languages. (1963)
- Harold G. Coe, Ph.D., Purdue University, Professor, Psychology.* (1965)
- Edward P. Colbert, Ph.D., Catholic University of America, Associate Professor, History. (1968)
- George M. Colby, M.A., University of Chicago, Assistant Professor, English. (1962)
- Wayne D. Coleman, D.Ed., University of Northern Colorado, Professor, Industrial Technology.* (1957)
- Joseph T. Connelly, Ed.D., University of Illinois, Professor, Political Science.* (1958)
- James R. Cook, Ph.D., Southern Illinois University, Assistant Professor, Health Education. (1970)
- Jerry L. Cooley, B.S. in Bus., Eastern Illinois University, Management. (1973) (Part-time)
- Nick Cooley, B.S. in Ed., Eastern Illinois University, Mathematics. (1973) (Part-time)
- Lewis H. Coon, Ed.D., Oklahoma State University, Professor, Mathematics. (1965)
- Alice M. Cooper, M.S., University of Illinois, Assistant Professor, Library. (1968)
- George K. Cooper, Ph.D., University of Michigan, Professor, Business Education and Administrative Office Management. (1962) (On leave, fall semester; on sabbatical leave, spring semester)
- Edward M. Corley, Ph.D., Oklahoma State University, Associate Professor, Economics.* (1967)
- Dennis Cougill, M.S. in Ed., Eastern Illinois University, Instructor, Elementary and Junior High School Education. (1973) (Part-time)
- Calvin Countryman, D.Ed., Pennsylvania State University, Professor, Art. (1945)
- Delmar Crabill, Ph.D., University of Illinois, Associate Professor, Mathematics. (1963)
- John M. Craft, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School and Physical Education for Men. (1970)
- Francis H. Craig, Ph.D., Southern Illinois University, Associate Professor, Laboratory School. (1957)

- William J. Crane, Ph.D., Yale University, Professor, Educational Psychology and Guidance. (1961) (On sabbatical leave, fall semester)
- Laurence E. Crofutt, M.A., Indiana University, Assistant Professor, Botany. (1967)
- Joyce S. Crouse, Ph.D., Southern Illinois University, Associate Professor, Home Economics Education.* (1968)
- Richard L. Crouse, M.A., University of Wisconsin, Assistant Professor, Foreign Languages. (1966)
- George L. Cunningham, Ph.D., University of California, Berkeley, Professor, Chemistry. (1961)
- Carleton E. Curran, Ph.D., University of Wisconsin, Associate Professor, History. (1966)

D

- Roger L. Darding, Ph.D., University of Illinois, Assistant Professor, Botany. (1970)
- Rex V. Darling, Dir. P.E., Indiana University, Assistant Professor, Physical Education for Men. (1945)
- M. Marise Daves, Ed.D., New York University, Professor, Physical Education for Women. (1955)
- Joyce E. David, Adv. C., University of Illinois, Assistant Professor Physical Education for Women. (1968)
- Alvie D. Davis, Ph.D., University of California, Los Angeles, Assistant Professor, Physics. (1970) (On leave 1973-74)
- Jack W. Dean, M.S. in Ed., Northern Illinois University, Assistant Professor, Physical Education for Men. (1969)
- Vincent R. DeCarlo, M.S., University of Tennessee, Assistant Professor, Management. (1970) (On leave 1973-74)
- Garret W. DeRuiter, M.F.A., Southern Illinois University, Assistant Professor, Art. (1965)
- Marilyn DeRuiter, M.S.Ed., Southern Illinois University, Instructor, Laboratory School. (1972) (Part-time)
- Helen L. Devinney, A.M., Columbia University, Assistant Professor, Home Economics. (1943)
- Suhrit K. Dey, Ph.D., Mississippi State University, Assistant Professor, Mathematics. (1970)
- Alphonso J. DiPietro, Ph.D., George Peabody College for Teachers, Professor, Mathematics.* (1959)
- Gerhardt W. Ditz, Ph.D., Columbia University, Professor, Sociology-Anthropology. (1971)
- Patrick J. Docter, Ph.D., Purdue University, Associate Professor, Zoology. (1969)
- Martha J. Doemelt, M.S. in Ed., Eastern Illinois University, Assistant Professor, Laboratory School. (1968) (On leave, spring semester)
- Ernest E. Dolson, M.S., Indiana State University, Assistant Professor, Mathematics and Education. (1968)
- Donald Dolton, M.A., Oklahoma State University, Assistant Professor, English. (1966)
- John E. Dorn, B.A., University of Georgia, Faculty Assistant, Speech Pathology and Audiology. (1974) (Spring semester)
- Earl Doughty, Ph.D., Southern Illinois University, Associate Professor, Elementary and Junior High School Education. (1963)
- Ruth L. Dow, M.S., University of Illinois, Instructor Home Economics. (Part-time) (1969)
- Dale D. Downs, Ed.D., Indiana University, Associate Professor, Laboratory School. (1963)
- Martha I. Drew, M.Ed., University of Illinois, Assistant Professor, Management. (1958)

- Craig Dudeczik, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech-Communications. (1973) (Part-time)
- Walter N. Duffett, Ph.D., University of Colorado, Professor, Geography and Geology.* (1973)
- Richard A. Dulka, M.A., St. Louis University, Assistant Professor, Foreign Languages. (1968)
- Leonard Durham, Ph.D., University of Illinois, Professor, Zoology. (1955)
- Genevra Dvorak, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1964)

E

- Hannah N. Eads, M.S. in Ed., Eastern Illinois University, Assistant Professor, Laboratory School. (1961)
- David W. Ebdon, Ph.D., University of Maryland, Associate Professor, Chemistry. (1968)
- John E. Ebinger, Ph.D., Yale University, Professor, Botany. (1963)
- Donald R. Eddy, M.A., University of Southern Mississippi, Lecturer, Physical Education for Men. (1968)
- Snowden L. Eisenhour, Ph.D., University of Illinois, Professor, Physics. (1961)
- E. Duane Elbert, Ph.D., Indiana University, Associate Professor, History. (1966)
- Carol E. Elder, Ph.D., University of Pittsburgh, Associate Professor, English. (1966)
- Betty G. Elliott, M.A., Ball State University, Instructor, Laboratory School. (1969)
- Thomas L. Elliott, D.Ed., University of Northern Colorado, Professor, Business Education and Administrative Office Management.* (1969)
- Jerry W. Ellis, Ph.D., Oklahoma State University, Associate Professor, Chemistry. (1966)
- Walter L. Elmore, M.A., University of Kentucky, Assistant Professor, Physical Education for Men and Education. (1948)
- Carl E. Emmerich, D.Ed., The Pennsylvania State University, Associate Professor, Art. (1962)
- Brenda Epling, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech Communications. (1973) (Part-time)
- Ruth Erckmann, M.A., University of South Dakota, Assistant Professor, Mathematics. (1963)
- Clifford H. Erwin, D.Ed., Indiana University, Professor, Industrial Arts Education. (1956)

F

- Clifford L. Fagan, Ph.D., The University of Iowa, Professor, Marketing.* (1949) (On sabbatical leave)
- Frances D. Falen, M.S.Ed., Kansas State University, Assistant Professor, Laboratory School. (1968)
- John R. Faust, Ph.D., University of North Carolina, Professor, Political Science. (1966) (On sabbatical leave, fall semester)
- Joyce Felstehausen, M.S.Ed., Eastern Illinois University, Instructor, Career Education Follow-Up Study. (1972)
- Pattie J. Fenn, M.A., George Peabody College for Teachers, Instructor, Business Education and Administrative Office Management. (1970)
- Max B. Ferguson, Ph.D., The University of Iowa, Professor, Zoology. (1950)
- Paul A. Filter, Ed.D., University of Nebraska, Associate Professor, Secondary Education and Foundations. (1970)
- Janice L. Flake, Ph.D., University of Illinois, Assistant Professor, Mathematics. (1969)

- Patricia Flaughter, M.S., Southern Illinois University, Instructor, Physical Education for Women. (1969)
- M. Lorraine Flower, Ph.D., University of Oregon, Professor, Physical Education for Women. (1965)
- Thomas W. Floyd, Ed.D., University of Illinois, Associate Professor, Elementary and Junior High School Education. (1967)
- Stephen Foor, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- C. Dan Foote, Ph.D., University of Illinois, Associate Professor, Chemistry. (1965)
- John P. Ford, Ph.D., The Ohio State University, Associate Professor, Geography and Geology. (1966) (On sabbatical leave, spring semester)
- Delbert D. Foust, Adv. C., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1964)
- Arlen L. Fowler, Ph.D., Washington State University, Associate Professor, History. (1969)
- Ewell W. Fowler, Ed.D., University of Missouri, Professor, Industrial Arts Education. (1941)
- Frank A. Fraembs, M.S., University of Illinois, Assistant Professor, Zoology. (1964)
- Jimmie L. Franklin, Ph.D., University of Oklahoma, Associate Professor, History. (1970)
- Richard C. Funk, Ph.D., University of Kansas, Associate Professor, Zoology. (1965)

G

- E. G. Gabbard, Ph.D., The University of Iowa, Professor, Theater Arts.* (1947)
- Lucina P. Gabbard, M.A., The University of Iowa, Assistant Professor, English. (1968)
- James G. Gard, B.S., Nicholls State University, Faculty Assistant, Mathematics. (Part-time) (1972)
- Walter C. Garland, Ph.D., The Ohio State University, Professor, Educational Administration and Supervision. (1968)
- Donald P. Garner, Ph.D., Wayne State University, Professor, Speech. (1963)
- Mary L. Gaskill, M.S., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1973) (Part-time)
- James F. Giffin, Ph.D., Northwestern University, Professor, Business. (1947)
- Michael A. Goodrich, Ph.D., Pennsylvania State University, Professor, Zoology. (1964)
- Gerald L. Gossett, M.S., Indiana State University, Instructor, Physical Education for Men. (1969)
- Timothy D. Gover, M.S., University of Illinois, Assistant Professor, Management. (1963)
- Louis M. Grado, Ph.D., The University of Iowa, Professor, Elementary and Junior High School Education.* (1955)
- Grant G. Gray, Ph.D., University of South Dakota, Associate Professor, Botany. (1966)
- Carl K. Green, Ed.D., University of Houston, Professor, Educational Psychology and Guidance. (1958)
- Norma C. Green, M.Ed., University of Southern Mississippi, Assistant Professor, Physical Education for Women. (1966)
- William E. Green, Ph.D., The Ohio State University, Professor, Management.* (1966)
- L. Joan Gregg, B.S. in Ed., Illinois State University, Faculty Assistant, Laboratory School. (1972)
- Raymond V. Griffin, Ed.D., University of Northern Colorado, Professor, Laboratory School. (1958)

- Jerry Griffith, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1966)
- Waldo Grigoroff, M.S. in Ed., University of Illinois, Assistant Professor, History and Social Sciences and Education. (1961)
- Karl M. Grisso, M.A.L.S., Indiana University, Assistant Professor, Library. (1969)
- Dennis C. Gross, M.S.Ed., Southern Illinois University, Assistant Professor, Accountancy. (1966) (On leave, spring semester)
- John C. Guckert, Ph.D., The Ohio State University, Assistant Professor, Secondary Education and Foundations. (1968)
- Gary L. Gueldner, M.S.Ed., Eastern Illinois University, Assistant Professor, Accountancy. (1967)
- Paul O. Gurholt, M.S., University of Wisconsin, Assistant Professor, Laboratory School. (1955)

H

- Ken E. Hadwiger, Ph.D., University of Oklahoma, Associate Professor, Speech-Communications. (1964)
- Lavern M. Hamand, Ph.D., University of Illinois, Professor, History. (1957)
- Martha T. Hamand, A.B., University of Illinois, Faculty Assistant, English. (1964) (Fall semester)
- Julian J. Hamerski, Ph.D., University of the Pacific, Associate Professor, Chemistry. (1963)
- Robert R. Hancock, Ph.D., University of Illinois, Associate Professor, Mathematics and Education. (1965)
- E. Mac Hansen, Ph.D., West Virginia University, Assistant Professor, Political Science. (1973)
- Burton E. Hardin, D.M.Ed., University of Oklahoma, Associate Professor, Musical Performance. (1969)
- Robert Y. Hare, Ph.D., The University of Iowa, Professor, Musical Studies. (1965)
- Stanley G. Harris, B.A., University of Missouri, Assistant Professor, Foreign Languages. (1968)
- Charles R. Harrison, M.A., University of Oklahoma, Assistant Professor, Speech-Communications. (1969)
- Norma J. Harrison, M.S., University of Oklahoma, Instructor, Home Economics. (1969)
- Dorothy M. Hart, Ph.D., The University of Iowa, Professor, Physical Education for Women.* (1947)
- Betty R. Hartbank, M.S.L.S., University of Illinois, Assistant Professor, Library. (1956)
- Evelyn H. Haught, Ph.D., University of Illinois, Assistant Professor, English and Education. (1970)
- Edith M. Hedges, M.S., University of Wisconsin, Assistant Professor, Home Economics. (1966)
- Frank H. Hedges, M.S., University of Illinois, Assistant Professor, Zoology. (1965)
- Carol M. Helwig, Ed.D., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1969)
- Brenda S. Hemken, B.S.Ed., Eastern Illinois University, Faculty Assistant, Zoology. (1972) (Part-time)
- Willa M. Hemmons, Ph.D., Case Western Reserve University, Assistant Professor, Sociology-Anthropology. (1973)
- Giles L. Henderson, Ph.D., Indiana University, Assistant Professor, Chemistry. (1966)
- Robert E. Hennings, Ph.D., University of California, Berkeley, Professor, History. (1962)

- James A. Herauf, D.H.S., Indiana University, Associate Professor, Health Education.** (1965)
- Billy J. Heyduck, M.F.A., University of Illinois, Assistant Professor, Art. (1966)
- Harold L. Hillyer, M.M., University of Southern California, Assistant Professor, Musical Performance. (1972)
- Dan M. Hockman, M.S. in Ed., Eastern Illinois University, Assistant Professor, History and Social Sciences and Education. (1965)
- Mildred S. Hofacker, M.A., Western Reserve University, Instructor, Speech-Communications. (1956) (Spring semester)
- Arnold J. Hoffman, M.S., University of Illinois, Assistant Professor, Chemistry. (1945)
- Arthur C. Hoffman, Ph.D., University of Illinois, Associate Professor, Accountancy. (1966)
- Bertrand P. Holley, M.A., Northwestern University, Associate Professor, Management. (1946)
- Charles Hollister, Ph.D., University of Pennsylvania, Professor, Political Science. (1967)
- Gary L. Holt, Ph.D., West Virginia University, Assistant Professor, Psychology. (1972)
- Janet M. Hooks, Ph.D., University of Illinois, Associate Professor, Economics. (1963)
- Richard L. Hooser, Ph.D., Southern Illinois University, Assistant Professor, Health Education. (1965)
- Jon J. Hopkins, Ph.D., Pennsylvania State University, Professor, Speech-Communications. (1956)
- Mildred Hopkins, B.Ed., Northern Illinois University, Faculty Assistant, Laboratory School. (1973)
- Stephan M. Horak, Ph.D., University of Erlangen, Professor, History. (1965)
- Nai-chao Hsu, Ph.D., Washington University, Professor, Mathematics. (1966)
- Glen E. Hubele, Ph.D., University of Illinois, Assistant Professor, Educational Psychology and Guidance. (1968)
- Richard L. Hummel, M.A., Indiana University, Assistant Professor, Sociology-Anthropology. (1969)
- Lawrence B. Hunt, Ph.D., University of Wisconsin, Associate Professor, Zoology. (1967)
- Robert W. Hussey, D.Ed., University of Northern Colorado, Associate Professor, Physical Education for Men. (1958)
- Frank E. Hustmyer, Ph.D., University of Cincinnati, Professor, Psychology. (1969)
- Marjorie T. Hutton, M.S. in Ed., Eastern Illinois University, Instructor, Speech-Communications. (1974) (Spring semester)
- Virginia W. Hyett, A.M., University of Missouri, Assistant Professor, Art. (1944)

I

- Bill V. Isom, M.S. in Ed., Southern Illinois University, Assistant Professor, Library. (1964)

J

- Ann E. Jackson, D.Ed., Arizona State University, Professor, Enrichment of Teacher Competencies Project. (1958)
- Gordon L. Jackson, M.A., Eastern Michigan University, Assistant Professor, English. (1970)
- Louise Jackson, M.A., Eastern Michigan University, Instructor, Psychology. (1973)

- Jesse E. James, M.S.Ed., Illinois State University, Instructor, Physical Education for Men. (1971)
- Judy James, M.A., University of North Carolina, Instructor, Zoology. (1973) (Part-time)
- William S. James, Ph.D., University of Tennessee, Assistant Professor, Zoology. (1970)
- John E. Jester, B.S.Ed., Eastern Illinois University, Faculty Assistant, Botany. (1972) (Part-time)
- Charles H. Johnson, J.D., University of Wisconsin, Associate Professor, Management. (1967)
- Dorothe L. Johnson, Adv. C., University of Illinois, Assistant Professor, Recreation. (1968)
- Fredric Johnson, M.A., Wayne State University, Assistant Professor, Musical Studies. (1973)
- June Johnson, D.M.A., University of Illinois, Professor, Musical Performance. (1960) (Sabbatical leave Spring Semester)
- Annie Lee Jones, Ph.D., University of Michigan, Assistant Professor, Recreation. (1972)
- Austin Jones, M.B.A., Eastern Illinois University, Instructor, Accountancy. (1969)
- George H. Jones, D. Phil., Oxford University, Professor, History. (1966)
- Robert W. Jordan, Ph.D., Washington University, Assistant Professor, Chemistry. (1966)

K

- Sylvia Y. Kaplan, M.A.L.S., Rosary College, Assistant Professor, Library Science. (1970)
- Dennis F. Karr, B.S.Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (Part-time) (1972)
- Robert H. Karraker, Ph.D., Iowa State University, Associate Professor, Chemistry. (1967)
- Tom Katsimpalis, Ed.D., University of Northern Colorado, Professor, Physical Education for Men. (1959)
- Ellen A. Keiter, M.S., University of Maryland, Instructor, Chemistry. (1973)
- Richard L. Keiter, Ph.D., University of Maryland, Associate Professor, Chemistry. (1969)
- John R. Keough, M.A., Marquette University, Instructor, Theatre Arts. (1971)
- Charles Keller, M.A., University of California, Assistant Professor, Sociology-Anthropology. (1970)
- Leo L. Kelly, Ph.D., Purdue University, Professor, Foreign Languages. (1968)
- William D. Kendrick, B.S., Eastern Illinois University, Faculty Assistant, Chemistry. (1973)
- John R. Keough, M.A., Marquette University, Instructor, Theater Arts. (1971)
- Nancy O. Keppler, M.S., University of Illinois, Instructor, Home Economics. (1968)
- William J. Keppler, Ph.D., University of Illinois, Professor, Zoology. (1965)
- Jane Key, M.S., Southern Illinois University, Instructor, Laboratory School. (1973)
- Rhoderick E. Key, M. Mus. Ed., Southern Illinois University, Assistant Professor, Musical Studies. (1966)
- Eun-Ja Kim, Ph.D., University of Southern Mississippi, Assistant Professor, Elementary and Junior High School Education. (1973)
- Ha Poong Kim, Ph.D., Boston University, Associate Professor, Philosophy.* (1967)
- Paul F. Kirby, Ph.D., University of Pittsburgh, Professor, Foreign Languages. (1964)
- Judd Kline, Ph.D., University of Minnesota, Professor, English. (1948)
- Edna Kniskern, M.S. in Ed., Eastern Illinois University, Instructor, Zoology. (1973) (Part-time)

- Verne B. Kniskern, Ph.D., University of Michigan, Professor, Zoology. (1950)
- Cary I. Knoop, M.F.A., University of Illinois, Assistant Professor, Art. (1953)
- Eric N. Koch, M.S., University of Illinois, Assistant Professor, Physics. (1972)
(Substitute)
- Raymond L. Koch, Ph.D., University of Minnesota, Associate Professor, History. (1966)
- Karl-Ludwig Konrad, M.A., University of Washington, Instructor, Foreign Languages. (1970)
- Lloyd L. Koontz, M.A., University of Arkansas, Assistant Professor, Mathematics. (1963)
- Fethi M. Kopuz, (Bachelor's), Faculty of Letters, Istanbul, Turkey, Associate Professor, Musical Performance. (1967)
- Keith T. Kowalczyk, B.S., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
- Eugene B. Krehbiel, Ph.D., Kansas State University, Professor, Zoology. (1963)
- James W. Krehbiel, Ph.D., Indiana University, Associate Professor, Musical Studies. (1965)
- Claire E. Krukenberg, Ph.D., University of Illinois, Assistant Professor, Mathematics. (1968)
- June M. Krutza, Ph.D., The Ohio State University, Professor, Art. (1952)
- Carol C. Ku, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1967)

L

- Oren F. Lackey, M.S., University of Illinois, Assistant Professor, Botany. (1963)
- Jon M. Laible, Ph.D., University of Illinois, Associate Professor, Mathematics. (1964)
- Bert A. Landes, M.A.T., Colorado State University, Assistant Professor, Botany and Zoology and Education. (1967)
- Floyd A. Landsaw, Ed.D., Indiana University, Assistant Professor, Instructional Media. (1965)
- M. Marjorie Lanman, M.Ed., University of Illinois, Instructor, Business and Education. (1961)
- Harry R. Larson, Ed.D., University of Northern Colorado, Associate Professor, Secondary Education and Foundations.* (1960)
- Herbert Laskey, Ph.D., New York University, Associate Professor, History. (1966)
- Lynnette J. Lasky, M.S.L.S., Eastern Illinois University, Assistant Professor, Library. (1973)
- Abdul Lateef, Ph.D., Southern Illinois University, Associate Professor, Political Science. (1968)
- Nancy E. Laurent, M.S. in Ed., Eastern Illinois University, Faculty Assistant, Life Sciences. (1973) (Part-time)
- Dorothy Lawson, M.S. in Ed., Eastern Illinois University, Instructor, Career Education Curriculum Project. (1969)
- Richard W. Lawson, M.S.L.S., Western Reserve University, Assistant Professor, Library Science. (1964)
- Sharon Lazenby, Ph.D., University of Illinois, Associate Professor, English. (1972)
- Walter S. Lazenby, Jr., Ph.D., Indiana University, Professor, English. (1969)
- Ronald M. Leathers, M.S., Indiana State University, Assistant Professor, English and Education. (1965)
- John W. LeDuc, Ph.D., University of Illinois, Associate Professor, Mathematics. (1965)
- Peter R. Leigh, Ph.D., University of Southern California, Associate Professor, Political Science. (1969)

- Roland Leipholz, Ed.D., University of Michigan, Associate Professor, Art. (1955)
 Genie Lenihan, M.S., University of Illinois, Instructor, Follow-Up Evaluation Project. (1972) (Part-time)
 Patrick M. Lenihan, Ph.D., University of Wisconsin, Associate Professor, Economics. (1967)
 Michael B. Leyden, D.Ed., University of Florida, Assistant Professor, Elementary and Junior High School Education. (1970)
 Maurice C. Libbey, M.S., Columbia University, Assistant Professor, Library. (1967)
 Mary R. Lindahl, B.A., Augustana College, Instructor, Management. (1973) (Part-time)
 John W. Linn, M.A., San Diego State College, Assistant Professor, Art. (1967)
 Inez B. Livingston, Ph.D., The Ohio State University, Professor, Psychology. (1968)
 Jerome B. Long, Ph.D., Fordham University, Associate Professor, Philosophy. (1966)
 Arthur J. Looby, Ed.D., University of Missouri, Professor, Psychology. (1959)¹
 Robert Lorenson, M.A., Indiana University, Assistant Professor, Library. (1971)
 Walter S. Lowell, Ed.D., Michigan State University, Professor, Physical Education for Men. (1961)

M

- Fred W. MacLaren, Ph.D., University of Oklahoma, Associate Professor, Elementary and Junior High School Education. (1965)
 Joanne Magalis, M.A., University of Illinois, Assistant Professor, Sociology-Anthropology. (1971)
 John N. Maharg, D.Ed., University of Illinois, Professor, Musical Performance. (1958)
 Harold A. Malehorn, Ph.D., Northwestern University, Associate Professor, Elementary and Junior High School Education. (1970)
 Maurice W. Manbeck, Ph.D., University of Minnesota, Assistant Professor, Psychology. (1957)
 W. Evan Mannakee, M.A., Northwestern University, Instructor, Theater Arts. (1969) (On leave)
 Elwyn L. Martin, Ph.D., University of Michigan, Associate Professor, Geography and Geology. (1956)
 Joseph M. Martin, M.M.Ed., East Carolina University, Assistant Professor, Musical Performance. (1969)
 Jacinto C. Martinez, M.S., East Texas State University, Assistant Professor, Zoology. (1966)
 Thomas O. Maruna, M.B.A., Ohio University, Instructor, Marketing. (1972)
 Merrillie Mather, Ph.D., Boston University, Professor, English. (1951)
 Gerhard C. Matzner, Ph.D., Cornell University, Professor, Educational Administration and Supervision (1955)
 David J. Maurer, Ph.D., The Ohio State University, Associate Professor, History. (1962)
 Jaime A. Maya, Ph.D., University of Arizona, Associate Professor, Zoology. (1966)
 George A. McArthur, M.S. in Ed., Eastern Illinois University, Instructor, Laboratory School. (1973) (Part-time)
 William J. McCabe, M.A., The University of Iowa, Assistant Professor, Physical Education for Men. (1962)
 Beryl F. McClarren, Ph.D., Southern Illinois University, Professor, Speech-Communications. (1964)

¹ Died November 7, 1973.

- Sally L. McCluskey, M.A., University of Arkansas, Assistant Professor, English. (1972)
- Frances W. McColl, M.A., Columbia University, Assistant Professor, English. (1957)
- Guy R. McConnell, B.S., Eastern Illinois University, Faculty Assistant, Zoology. (1972) (Part-time)
- Claude R. McCullough, B.S., Indiana State University, Faculty Assistant, Industrial Technology. (1973)
- Jacqueline McCullough, M.A., Indiana State University, Instructor, Home Economics. (1972)
- Gail B. McCutcheon, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (1973) (Part-time)
- Walter H. McDonald, Ph.D., University of Illinois, Professor, Geography and Geology. (1958)
- John F. McElligott, Ph.D., New York University, Assistant Professor, History. (1967) (On sabbatical leave)
- Harland G. McFarland, M.S., Southern Illinois University, Assistant Professor, Physical Education for Men and Education. (1970)
- Ralph Y. McGinnis, Ph.D., University of Denver, Professor, Speech-Communications. (1972)
- June McGown, M.Ed., University of Southern Mississippi, Instructor, Psychology. (1973) (Part-time)
- William P. McGown, Ph.D., University of Southern Mississippi, Assistant Professor, Psychology. (1970)
- Donald L. McKee, M.A.T., University of Illinois, Assistant Professor, Foreign Language and Education. (1961)
- F. Raymond McKenna, Ed.D., Harvard University, Professor, Secondary Education and Foundations. (1953) (On sabbatical leave, fall semester)
- Donald E. McMullen, M.A., Northern Illinois University, Assistant Professor, Marketing. (1970)
- Val G. McPeak, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education for Men. (1970)
- Jerry W. McRoberts, M.A., University of Illinois, Assistant Professor, Art. (1963)
- J. Earl McSwain, M.A., University of Alabama, Assistant Professor, Speech-Communications. (1973)
- Robert E. Meier, Ph.D., University of Illinois, Associate Professor, Management. (1964)
- Evelyn Melloh, Ph.D., Southern Illinois University, Professor, Home Economics. (1970)
- Floyd E. Merritt, M.A., University of Kansas, Assistant Professor, Speech-Communications. (1970)
- John E. Mertes, D.B.A., Indiana University, Professor, Marketing and Coordinator of Graduate Business Studies. (1969)
- Douglas K. Meyer, Ph.D., Michigan State University, Assistant Professor, Geography and Geology. (1970)
- Roy A. Meyerholtz, Ed.D., University of Northern Colorado, Associate Professor, Mathematics. (1961)
- Martin M. Miess, Ph.D., Universitaet Innsbruck, Professor, Foreign Languages.* (1956)
- Beverly B. Miller, M.S.L.S., University of Illinois, Assistant Professor, Library Science. (1967)
- Charles E. Miller, Jr., M.S., Eastern Illinois University, Faculty Assistant, Physics. (1967)
- Karen Miller, B.S. in Ed., Eastern Illinois University, Instructor, Laboratory School. (1973)

- William D. Miller, Ph.D., The University of Iowa, Associate Professor, English. (1963)
- Alan K. Millis, B.S., Eastern Illinois University, Faculty Assistant, Life Sciences. (1973) (Part-time, fall semester)
- Lynn E. Miner, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1963)
- William D. Miner, Ph.D., Indiana University, Professor, History. (1950)
- Richard D. Minick, B.S., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
- William J. Mitchell, M.A., The University of Iowa, Assistant Professor, Art. (1970)
- Al R. Moldroski, M.A., Michigan State University, Assistant Professor, Art. (1963)
- Donald L. Moler, Ph.D., University of Kansas, Professor, Educational Psychology and Guidance.* (1951)
- Edward O. Moll, Ph.D., University of Utah, Associate Professor, Zoology. (1968)
- John T. Moore, D.B.A., Indiana University, Professor, Marketing.** (1969)
- Neil E. Moore, Ed.S., University of Northern Colorado, Assistant Professor, Physical Education for Men. (1970)
- Shirley B. Moore, Ed.D., University of Northern Colorado, Associate Professor, Psychology. (1970)
- Herbert O. Morice, Ed.D., University of Houston, Professor, Psychology. (1967)
- Donald B. Morlan, Ph.D., Purdue University, Associate Professor, Speech-Communications.* (1969)
- James D. Motley, M.B.A., Eastern Illinois University, Instructor, Accountancy. (1973)
- John E. P. Mullally, M.A., Middlebury College, Assistant Professor, Foreign Languages. (1968)
- Betty G. Muller, M.A., East Carolina College, Assistant Professor, Physical Education for Women. (1965)
- Byron E. Munson, Ph.D., University of Illinois, Professor, Sociology-Anthropology. (1967)
- Ahmad Murad, Ph.D., University of Wisconsin, Professor, Economics. (1963)
- David H. Murphy, M.S., Indiana State University, Assistant Professor, Botany and Zoology and Education. (1968)
- Louise Murray, Ph.D., Northwestern University, Professor, English. (1951) (On sabbatical leave, spring semester)
- Jack Murry, Ed.M., University of Illinois, Assistant Professor, Business Education and Administrative Office Management. (1965)
- Jeanette Murry, M.S. in Ed., Eastern Illinois University, Assistant Professor, Business and Education. (1969)

N

- Jagdish L. Nanda, Ph.D., Indiana University, Professor, Mathematics. (1964)
- Sat P. Narang, M.S.L.S., University of Wisconsin, Assistant Professor, Library. (1969)
- Joel E. Naumann, Ph.D., University of Utah, Assistant Professor, Musical Studies. (1973)
- Shirley W. Neal, Ph.D., University of Illinois, Assistant Professor, English. (1968)
- Allen R. Neff, M.A., The Ohio State University, Assistant Professor, English. (1967)
- Howard F. Nelms, M.Ed., University of Illinois, Assistant Professor, Industrial Arts Education. (1970)
- James E. Nicely, M.A., Indiana University, Assistant Professor, Speech Pathology and Audiology. (1970)
- Lawrence R. Nichols, Ph.D., Duke University, Professor, History. (1962)

- Thomas H. Nickels, M.S., Purdue University, Assistant Professor, Economics. (1968)
- Henry C. Nilsen, M.S., University of Illinois, Assistant Professor, Zoology. (1967)
- Carol J. Noland, M.S. in Ed., Eastern Illinois University, Instructor, Home Economics. (1972)
- Janet L. Norberg, Ph.D., The University of Iowa, Professor, Speech-Communications. (1963)
- Harold D. Nordin, M.A., Northern Illinois University, Assistant Professor, Economics. (1967)
- John T. North, Ed.D., Indiana University, Associate Professor, Secondary Education and Foundations. (1970)

O

- Maynard O'Brien, Ed.D., University of Illinois, Professor, Physical Education for Men. (1946)
- Marilyn S. Oglesby, M.S. in Ed., Eastern Illinois University, Instructor, Management. (1969)
- Kevin J. O'Keefe, Ph.D., New York University, Assistant Professor, History. (1970)
- Geraldina Ortiz-Muniz, Ph.D., Florida State University, Professor, Foreign Languages. (1962)
- Maria M. Ovcharenko, Ph.D., Charles University, Professor, Foreign Languages. (1964)
- Paul D. Overton, Ed.D., University of Northern Colorado, Professor, Educational Psychology and Guidance. (1962)
- Barbara L. Owens, Ed.S., Eastern Illinois University, Assistant Professor, Home Economics and Education. (1969)
- John W. Oxley, M.B.A., Eastern Illinois University, Instructor, Management. (1973)
- S. Jayne Ozier, M.S.Ed., Eastern Illinois University, Instructor, Home Economics. (1970)

P

- Ronald Paap, A.M., University of Northern Colorado, Assistant Professor, Physical Education for Men. (1963)
- Raymond F. Padovan, M.S., Southern Illinois University, Assistant Professor, Physical Education for Men. (1966)
- James E. Palmer, Ph.D., University of Missouri, Associate Professor, Geography and Geology. (1969)
- Anne Marie Pasquarelli, M.A., Purdue University, Instructor, English. (1972)
- Patricia A. Patrick, B.S.Ed., Eastern Illinois University, Faculty Assistant, Life Sciences and Laboratory School. (1972)
- James Patterson, Jr., M.A., California State College, Assistant Professor, Art. (1969)
- J. Robert Pence, Ed.D., University of Illinois, Professor Musical Studies. (1951)
- Stuart L. Penn, Ph.D., Yale University, Professor, Philosophy. (1960)
- John C. Peterson, Ph.D., The Ohio State University, Assistant Professor, Mathematics. (1969)
- Marla Peterson, Ph.D., The Ohio State University, Assistant Professor, Enrichment of Teacher Competencies Project. (1970)
- Nicholas C. Petridis, Ph.D., University of Chicago, Professor, Mathematics. (1966)
- Charles E. Pettypool, M.A., The Ohio State University, Assistant Professor, Mathematics. (1957)
- Steve Phillips, M.S., The University of Iowa, Assistant Professor, Management. (1971)

- Gerald Pierson, M.S. in Ed., Eastern Illinois University, Assistant Professor, History and Social Sciences and Education. (1963)
- Evelyn Pinther, M.S., Eastern Illinois University, Faculty Assistant, Home Economics. (1973) (Part-time)
- Harold O. Pinther, M.S., University of Wisconsin, Assistant Professor, Physical Education for Men. (1954)
- Raymond A. Plath, Ph.D., University of Wisconsin, Professor, Economics. (1946)
- Frances M. Pollard, Ph.D., Western Reserve University, Professor, Library Science.* (1963)
- Fredrick Preston, Jr., Ph.D., University of Illinois, Assistant Professor, English and Education. (1972)
- Dalias A. Price, Ph.D., University of Wisconsin, Professor, Geography and Geology. (1958)
- Freda Proctor, M.A., Eastern Illinois University, Instructor, Musical Performance. (1973)

Q

- Ruth S. Queary, M.S. in Ed., Eastern Illinois University, Assistant Professor, Mathematics. (1961)
- Theodore K. Quinn, Ph.D., The University of Iowa, Assistant Professor English. (1972)
- Keith H. Quirk, M.S.Ed., Northern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1972)
- James R. Quivey, Ph.D., Northern Illinois University, Associate Professor, English. (1969)

R

- Anola E. Radtke, M.M., Indiana University, Assistant Professor, Laboratory School. (1964)
- Mushfequr Rahman, Ph.D., McGill University, Professor, Mathematics. (1967)
- Mary F. Ramsey, Ph.D., Southern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1973)
- Jack C. Rang, Ph.D., Northwestern University, Associate Professor, Theatre Arts. (1969)
- Mary R. Rang, M.A., Eastern Illinois University, Instructor, Theater Arts. (1973)
- Evelyn N. Ransom, M.A., New Mexico Highlands University, Assistant Professor, English. (1970)
- Paladugu V. Rao, M.S.L.S., University of Illinois, Assistant Professor, Library. (1968) (On sabbatical leave, spring semester)
- Hugh C. Rawls, Ph.D., University of Alabama, Professor, Zoology. (1956)
- Mary Jo Read, Ph.D., University of Wisconsin, Professor, Geography and Geology. (1965)
- John J. Rearden, Ph.D., Oklahoma State University, Associate Professor, Psychology. (1968)
- Phyllis L. Rearden, M.S.L.S., University of Illinois, Instructor, Library. (1970)
- John D. Reed, M.A., University of Missouri, Instructor, English. (1972)
- James J. Reynolds, D.Ed., Indiana University, Associate Professor, Instructional Media. (1969)
- Paul J. Reynolds, Jr., M.B.A., Bowling Green State University, Instructor, Management. (1969)
- Paula Reynolds, M.S., Baylor University, Instructor, English. (1973)
- Jack J. Richardson, Ph.D., Southern Illinois University, Professor, Health Education.* (1965) (On sabbatical leave, spring semester)

- Rachael G. Richardson, M.S. in Ed., Eastern Illinois University, Assistant Professor, English (1963)
- Bernie Ricono, M.S., Indiana University, Assistant Professor, Physical Education for Men. (1972)
- Bill T. Ridgeway, Ph.D., University of Missouri, Professor, Zoology. (1966) (On sabbatical leave, spring semester)
- Leta Ridgeway, M.S.L.S., Eastern Illinois University, Instructor, Library. (1971) (Part-time)
- Harland A. Riebe, Ed.D., University of Colorado, Professor, Health Education. (1950)
- Garland T. Riegel, Ph.D., University of Illinois, Professor, Zoology.* (1948)
- Helen J. Riley, M.S. in Ed., Illinois State University, Assistant Professor, Physical Education for Women. (1965)
- Lawrence A. Ringenberg, Ph.D., The Ohio State University, Professor, Mathematics. (1947)
- William G. Riordan, Ph.D., Western Reserve University, Professor, Recreation. (1964)
- John L. Roberts, Ph.D., The University of Iowa, Professor, Management. (1965)
- James H. Robertson, D.Ed., University of Illinois, Professor, Music and Education. (1956)
- Kathryn W. Robertson, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1965)
- Donald L. Rogers, D.Ed., University of Nebraska, Associate Professor, Laboratory School. (1963)
- Richard E. Rogers, Ph.D., Indiana University, Associate Professor, English (1969)
- George W. Rommel, Ph.D., Northwestern University, Professor, English. (1953)
- Jerome J. Rooke, M.S., Northern Illinois University, Assistant Professor, Accountancy. (1965)
- Janet C. Ruddell, M.S. in Ed., Eastern Illinois University, Instructor, Career Education Curriculum Project. (1970) (Part-time)
- Paul F. Ruddell, M.S., Purdue University, Instructor, Physics. (1967)
- Al G. Rundle, M.A., University of Denver, Assistant Professor, Speech Communications. (1963)
- Wanda E. Ruyle, Adv. C., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1969)
- Allen W. Rydinsky, M. in Ed., University of Pittsburgh, Assistant Professor, Chemistry, Physics and Education. (1973)

S

- Robert E. Saltmarsh, Ed.D., Indiana University, Assistant Professor, Educational Psychology and Guidance. (1969)
- Raymond J. Samp, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
- Carol Sanders, M.S. in Ed., Wisconsin State University, Instructor, Career Education Resource Laboratory. (1973)
- George P. Sanders, M.M., Yale University, Assistant Professor, Musical Performance. (1964) (On sabbatical leave)
- J. W. Sanders, Ed.D., University of New Mexico, Assistant Professor, Physical Education for Men. (1970)
- Karen J. Sanders, M.M., University of Wisconsin, Assistant Professor, Musical Performance. (1966) (On leave)
- Mauderie H. Saunders, Ph.D., University of Oklahoma, Professor, Psychology. (1970) (On leave)

- John E. Schaefer, M.S., University of Wisconsin, Assistant Professor, Physical Education for Men. (1969)
- Lahron H. Schenke, Ed.D., Teachers College, Columbia University, Professor, Elementary and Junior High School Education. (1963)
- Pamela Schenke, M.S.Ed., Eastern Illinois University, Instructor, Laboratory School. (1972)
- Wolfgang T. Schlauch, Ph.D., University of Freiburg, Professor, History.* (1969)
- Cinda L. Schmidt, B.S.Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (1972)
- Joan K. Schmidt, M.S., Northern Illinois University, Instructor, Physical Education for Women and Education. (1970)
- Gene W. Scholes, Ph.D., Southern Illinois University, Associate Professor, Instructional Media.* (1966)
- Frederick R. Schram, Ph.D., University of Chicago, Associate Professor, Zoology. (1968)
- Stella B. Schulz, Ph.D., University of Chicago, Associate Professor, Home Economics. (1973)¹
- John J. Schuster, M.S., University of Illinois, Assistant Professor, Laboratory School. (1973)
- Anthony E. Schwaller, M.S., Stout State University, Instructor, Industrial Technology. (1970)
- Thomas E. Scism, Ph.D., University of North Carolina, Associate Professor, Political Science. (1970)
- Colonel W. Scott, B.S., Marshall University, Instructor, Physical Education for Men. (1968)
- Mary Elizabeth Scott, M.S. in L.S., Columbia University, Associate Professor, Library. (1948)
- William W. Scott, Ph.D., University of Michigan, Professor, Botany.* (1968)
- Phillip M. Settle, M.F.A., University of Illinois, Assistant Professor, Laboratory School. (1957)
- Carl N. Sexton, P.E.D., Indiana University, Associate Professor, Health Education. (1966)
- Kathlene L. Shank, M.S. in Ed., Eastern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1970)
- Maurice D. Shepherd, M.A.T., Indiana University, Assistant Professor, Chemistry and Physics and Education. (1967) (On sabbatical leave)
- Rose M. Shepherd, M.S., Southern Illinois University, Instructor, English. (1970)
- Paul L. Shriver, M.A., Bradley University, Instructor, Psychology. (1969)
- Marian H. Shuff, Ed.D., University of Kansas, Professor, Secondary Education and Foundations. (1966)
- Robert V. Shuff, Ph.D., University of Minnesota, Professor, Educational Administration and Supervision.* (1964)
- Carl E. Shull, Ph.D., The Ohio State University, Professor, Art. (1947)
- Bryan Shuster, M.A., Northeast Missouri State College, Assistant Professor, Industrial Arts Education. (1968)
- Richard J. Sidwell, Ph.D., University of Utah, Assistant Professor, Economics. (1970)
- Henry Silverstein, M.L.S., M.A., New York University, Assistant Professor, English (1965)
- Delbert R. Simon, D.M.A., The University of Iowa, Associate Professor, Musical Performance. (1969)
- Peter J. Slavish, M.Ed., Pennsylvania State University, Assistant Professor, Art. (1970)

¹ Resigned September 30, 1973.

- Allen W. Smith, Ph.D., Indiana University, Assistant Professor, Economics. (1970)
- Calvin N. Smith, Ph.D., Purdue University, Associate Professor, Speech-Communications. (1965)
- Carolyn G. Smith, M.N., Western Reserve University, Assistant Professor, Health Education. (1952)
- Catherine A. Smith, D.Mus., Florida State University, Professor, Musical Performance. (1949)
- Jerome V. Smith, Ph.D., Louisiana State University, Assistant Professor, Sociology-Anthropology. (1972)
- Norman D. Smith, Ph.D., Indiana University, Assistant Professor, Chemistry. (1965)
- P. Scott Smith, Ph.D., Cornell University, Professor, Physics. (1953)
- Richard L. Smith, Ph.D., University of Texas, Associate Professor, Botany. (1965)
- Robert J. Smith, Ph.D., The University of Iowa, Professor, Chemistry. (1955)
- Donald W. Smitley, Ed.D., University of Illinois, Associate Professor, Educational Administration and Supervision. (1970)
- James Smitley, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Laboratory School. (1973)
- Paula Snyder, B.S., Michigan State University, Faculty Assistant, Home Economics. (1973) (Part-time)
- Robert C. Snyder, D.M.A., University of Missouri, Associate Professor, Musical Performance. (1967)
- Robert E. Snyder, Ph.D., The University of Iowa, Associate Professor, Musical Performance. (1969)
- Margaret Soderberg, Ph.D., Washington University, Professor, Political Science. (1962)
- Robert B. Sonderman, Ed.D., University of Missouri, Professor, Industrial Arts Education.* (1956)
- Walter Sorge, Ed.D., Columbia University, Associate Professor, Art.* (1970)
- Roland D. Spaniol, Ph.D., The University of Iowa, Professor, Management. (1960)
- John M. Speer, Ph.D., The Ohio State University, Associate Professor, Botany. (1969)
- Joyce A. Spencer, B.S., Eastern Illinois University, Faculty Assistant, Career Education Resource Laboratory. (1973) (Part-time)
- Walter B. Spencer, Ph.D., Baylor University, Assistant Professor, Psychology. (1971)
- Joan E. Squire, M.M., University of Illinois, Assistant Professor, Musical Performance. (1969). (On leave)
- Henry A. Stackhouse, Ed.D., University of Missouri, Professor, Psychology. (1960)
- Ray V. Stapp, D.Ed., Pennsylvania State University, Professor, Art. (1964)
- Sidney R. Steele, Ph.D., The Ohio State University, Professor, Chemistry.* (1947)
- M. Lee Steinmetz, Ph.D., Brown University, Professor, English. (1959)
- Robert W. Sterling, M.S. in Ed., Eastern Illinois University, Assistant Professor, History. (1956)
- Donald L. Stevens, Ph.D., Michigan State University, Assistant Professor, Management. (1973) (Part-time)
- Frank C. Stokes, Ph.D., University of Illinois, Assistant Professor, English. (1969)
- Victor Stoltzfus, Ph.D., Pennsylvania State University, Assistant Professor, Sociology-Anthropology.* (1970)
- Sue B. Stoner, M.S. in Ed., Eastern Illinois University, Assistant Professor, Psychology. (1965)
- Alice C. Stoughton, M.S., University of Oregon, Instructor, Physical Education for Women. (1971)
- Gayle G. Strader, M.Ed., University of Illinois, Assistant Professor, Laboratory School. (1965)

- Clifford E. Strandberg, Ed.D., Texas A & M University, Professor, Industrial Arts Education. (1965)
- Craig M. Stroh, M.A., University of Oregon, Assistant Professor, Economics. (1970)
- Frederick G. Stubbs, Ph.D., University of Illinois, Associate Professor, Management. (1972)
- Frieda S. Stute, Ph.D., University of Illinois, Associate Professor, Sociology-Anthropology. (1966)
- Barbara Sullivan, M.S., University of Illinois, Assistant Professor, Musical Performance. (1974) (Part-time, spring semester)
- Gerald E. Sullivan, Ph.D., University of Minnesota, Professor, Theater Arts. (1969)
- Robert N. Sullivan, Ph.D., Georgia State College, Associate Professor, Business Education and Administrative Office Management. (1964)
- Francis E. Summers, D.Ed., University of Illinois, Associate Professor, Psychology. (1965)
- William Sunderman, J.D., University of Illinois, Assistant Professor, Management. (1972) (Part-time)
- L. Donald Sundheim, M.A., University of Minnesota, Assistant Professor, Foreign Languages. (1968)
- Janet Sutherland, M.S.Ed., Eastern Illinois University, Instructor, Enrichment of Teacher Competencies Project. (1971)
- Kenneth R. Sutton, Ph.D., University of New Mexico, Assistant Professor, Secondary Education and Foundations. (1970)
- Richard Swartzbaugh, Ph.D., The Ohio State University, Assistant Professor, Sociology-Anthropology. (1972)
- Charles Switzer, Ph.D., Michigan State University, Professor, English. (1966)
- Donald S. Swope, M.S., Columbia University, Assistant Professor, Library. (1964)
- Mary Ruth Swope, Ed.D., Columbia University, Professor, Home Economics. (1962)
- P. Rex Syndergaard, Ph.D., St. Louis University, Professor, History. (1956)
- B. Joseph Szerenyi, D.Pol.S., Elizabeth University, Professor, Library. (1967)

T

- Henry A. Taitt, M.S., University of Delaware, Assistant Professor, Physics. (1965)
- Nancy P. Taitt, M.A., University of Delaware, Instructor, Mathematics. (1969) (Substitute)
- Ellwood R. Tame, Ph.D., University of Denver, Professor, Speech-Communications. (1965)
- Jimmy R. Tammen, M.S.Ed., Eastern Illinois University, Instructor, Industrial Technology. (1971)
- Virginia A Tate, M.Ed., University of Missouri, Assistant Professor, Laboratory School. (1952)
- Carl M. Tausig, Ed.D., University of Illinois, Associate Professor, Enrichment of Teacher Competencies Project. (1970)
- Frank S. Taylor, Ph.D., Boston University, Associate Professor, Philosophy. (1965)
- Virginia J. Tefft, Ed.D., University of New Mexico, Associate Professor, Physical Education for Women. (1969)
- Francis L. Teller, M.A., Teachers College, Columbia University, Assistant Professor, Physical Education for Men. (1963)
- Daniel E. Thornburgh, M.A., The University of Iowa, Assistant Professor, English. (1959)
- Laurence C. Thorsen, Ph.D., University of Illinois, Associate Professor, Political Science. (1968)
- Wayne L. Thurman, Ph.D., Purdue University, Professor, Speech Pathology and Audiology.* (1953)

- Robert C. Timblin, M.A., University of Illinois, Assistant Professor, Sociology-Anthropology. (1960)
- Donald F. Tingley, Ph.D., University of Illinois, Professor, History. (1953)
- Donald C. Tracy, M.M., University of Michigan, Assistant Professor, Musical Performance. (1968)
- Lynn E. Trank, Ph.D., The Ohio State University, Professor, Art. (1952)
- Charles F. Tucker, B.S., in Ed., Eastern Illinois University, Faculty Assistant, Chemistry. (1955)
- Mary C. Turner, M.A., West Virginia University, Instructor, Laboratory School. (1969)
- George E. Tuttle, Ph.D., University of Illinois, Assistant Professor, Speech-Communications and Theatre Arts and Education. (1972)

V

- Charles R. Vaughan, M.S. in Ed., Eastern Illinois University, Assistant Professor, Recreation. (1965)
- Stuart P. Vincent, M.S., University of Nebraska, Associate Professor, Elementary and Junior High School Education. (1967)
- Peter M. Vivona, M.A., The Ohio State University, Assistant Professor, Musical Performance. (1967)
- Virginia L. Vogel M.S. in Ed., Eastern Illinois University, Instructor, Home Economics. (1972)

W

- Leyla Waddell, M.A., Eastern Illinois University, Faculty Assistant, Library (1967) (Part-time)
- Robert C. Waddell, Ph.D., Iowa State University, Professor, Physics. (1948)
- Clayland H. Waite, M.A., University of Michigan, Assistant Professor, Speech-Communications. (1973)
- Ronald G. Wallace, Ph.D., The Ohio State University, Assistant Professor, Geography and Geology. (1970)
- A. Ruth Walther, M.S., Butler University, Instructor, Laboratory School. (1970)
- Paul G. Walther, D.Ed., Indiana University, Associate Professor, Elementary and Junior High School Education. (1970)
- Betty N. Waltman, B.S., Indiana State University, Faculty Assistant, Career Education Resource Laboratory. (1973)
- Willis O. Waltman, Ed.S., Eastern Illinois University, Assistant Professor, Instructional Media and Laboratory School. (1969)
- Paul L. Ward, Ph.D., The Ohio State University, Associate Professor, Educational Psychology and Guidance. (1967)
- Barbara Warner, B.S., Colorado State University, Faculty Assistant, Life Sciences. (1973) (Part-time)
- Ben P. Watkins, Ph.D., University of Minnesota, Associate Professor, Art. (1964)
- Charles W. Watson, M.A., Western Kentucky State College, Assistant Professor, Industrial Technology. (1965)
- Shirley A. Weasel, M.S.Ed., Eastern Illinois University, Instructor, Home Economics. (1968) (Part-time)
- Thomas L. Weaver, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
- Mary L. Weber, M.S., University of California, Assistant Professor, Physical Education for Women. (1970)
- Robert W. Weidner, Ph.D., University of Rochester, Professor, Musical Studies. (1965)

- Terry M. Weidner, Ph.D., The Ohio State University, Associate Professor, Botany. (1964)
- Nancy Weiler, M.S., Purdue University, Assistant Professor, Speech Pathology and Audiology. (1969)
- William A. Weiler, Ph.D., Purdue University, Assistant Professor, Botany. (1969)
- Marcia S. Whalen, M.M., Kansas State University, Instructor, Musical Performance. (1973)
- Edwin A. Whalin, Jr., Ph.D., University of Illinois, Professor, Physics. (1966) (On sabbatical leave, fall semester)
- Robert V. Wharton, Ph.D., Columbia University, Professor, English. (1956)
- Bruce C. Wheatley, Ph.D., University of Denver, Associate Professor, Speech-Communications. (1966)
- Alan White, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech-Communications. (1973) (Part-time)
- Richard A. White, M.S., Southern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1969)
- Robert F. White, Ph.D., University of Pennsylvania, Professor, English.* (1960)
- Wesley C. Whiteside, Ph.D., Florida State University, Professor, Botany. (1960)
- L. Stephen Whitley, Ph.D., Purdue University, Professor, Zoology. (1963) (On sabbatical leave, fall semester)
- Roger L. Whitlow, M.S., Illinois State University, Assistant Professor, English. (1967)
- Clarence B. Wible, M. Litt., University of Pittsburgh, Assistant Professor, English. (1967)
- Mary Lou Wigley, M.S.L.S., Eastern Illinois University, Instructor, Library. (1971)
- Richard Wigley, Ph.D., Southern Illinois University, Assistant Professor, Health Education. (1967)
- Rebecca S. Wild, Ph.D., University of Michigan, Associate Professor, English. (1966)
- Carl E. Wilen, M.F.A., University of Illinois, Assistant Professor, Art. (1965)
- Roger G. Wiley, M.A., Louisiana State University, Assistant Professor, Speech-Communications. (1964)
- Larry J. Williams, M.A., University of Oregon, Assistant Professor, Mathematics. (1964)
- Ned Williams, Ph.D., Columbia University, Professor, Management. (1969)
- Gilbert E. Wilson, Ph.D., Southern Illinois University, Associate Professor, Health Education. (1962)
- Mary L. Wilson, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech-Communications. (1973) (Part-time)
- Robert C. Wiseman, Ed.D., Indiana University, Associate Professor, Instructional Media. (1958)
- Verna D. Wittrock, Ph.D., University of Illinois, Associate Professor, English. (1966)
- Ronald T. Wohlstein, M.A., University of Alberta, Assistant Professor, Sociology-Anthropology. (1970)
- Leonard C. Wood, Ph.D., University of Pennsylvania, Professor, History. (1960)
- M. Thomas Woodall, Ph.D., The University of Iowa, Associate Professor, Physical Education for Men. (1965)

Y

- Harriet E. Yingling, Ed.D., New York University, Professor, Physical Education for Women. (1968)
- Marina Su-Chin Yu, M.A., Texas Woman's University, Assistant Professor, Physical Education for Women. (1966)

Z

- Robert Zabka, Ph.D., Northwestern University, Associate Professor, Elementary and Junior High School Education. (1964)
- Jerry Zachary, Adv. C., University of Illinois, Assistant Professor, Educational Psychology and Guidance. (1966)
- Lorene E. Ziegler, D.Ed., Columbia University, Professor, Elementary and Junior High School Education. (1947)
- Raymond J. Zike, B.S.Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (1972) (Part-time)
- U. Douglas Zimmerman, Ph.D., University of Missouri, Assistant Professor, Botany. (1972)
- Endre Zongor, M.A., Western Michigan University, Assistant Professor, Library. (1968)
- Susan M. Zorn, M.A., Indiana University, Instructor, English. (1972)
- Gary L. Zwicky, D.M.A., University of Illinois, Associate Professor, Musical Performance. (1966)

EMERITUS FACULTY

Presidents

Robert G. Buzzard, Ph.D.

Quincy V. Doudna, Ph.D.

Vice Presidents

Hobart F. Heller, Ph.D., Instruction

William H. Zeigel, Ph.D., Administrative Affairs

Professors

Donald R. Alter, Ph.D.¹
 Robert L. Blair, Ph.D.
 Harold V. Cavins, Ed.D.
 Earl S. Dickerson, Ed.D.
 Arthur U. Edwards, Ph.D.
 Gladys W. Ekeberg, Ph.D.
 Charles Elliott, Ph.D.
 Melvin O. Foreman, Ph.D.
 Kevin Guinagh, Ph.D.
 Edith C. Haight, Ph.D.
 Bryan Heise, Ph.D.
 E. Chenault Kelly, D.Ed.
 Walter A. Klehm, Ed.D.
 Elizabeth K. Lawson, Ph.D.
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 Lawson F. Marcy, Ph.D.
 John W. Masley, Ed.D.

Glenn A. McConkey, Ph.D.
 Elizabeth Michael, Ph.D.
 Sadie O. Morris, Ph.D.
 Harry E. Peterka, Ph.D.
 Le Roy Peterson, Ph.D.
 Harris E. Phipps, Ph.D.
 Emma Reinhardt, Ph.D.²
 J. Glenn Ross, Ph.D.
 Roscoe F. Schaupp, Ph.D.
 Ruth Schmalhausen, Ed.D.
 Glenn H. Seymour, Ph.D.
 Ruby Smith, Ph.D.
 Verne Stockman, Ed.D.
 Hiram F. Thut, Ph.D.
 George S. Westcott, Ph.D.
 William G. Wood, Ph.D.

Assistant Professors

Mary L. Anderson, Ed.S.
 Myrtle Arnold, A.M.³
 Winifred H. Bally, M.A.
 Ruth Carman, M.A.
 Gilbert T. Carson, A.M.
 Leah Stevens Castle, S.M.
 Lena B. Ellington, A.M.
 Aline Elliott, M.S.
 Marguerite E. Green, M.P.H.
 Harriet Love Hershey, M.S.
 Ruth Hostetler, A.M.

Jessie M. Hunter, M.A.
 Ica Marks, M.S.
 Mildred Morgan, M.A.
 Roberta L. Poos, A.M.
 Florence E. Reid, M.A.
 Nannilee Saunders, M.A.
 Lee Anna J. Smock, M.A.
 Ethel Hanson Stover, A.M.
 Robert R. Thrall, M.S.
 Helen VanDeventer, M.S.Ed.

¹Died May 11, 1973

²Died November 11, 1973

³Died December 12, 1973

Instructors

Pauline Galbreath, M.S.L.S.
Mildred Hofacker, M.A.
Lottie Leeds, M.S.Ed.

Administrators

Raymond R. Gregg, A.M., Director of Business Services
Ruth H. Gaertner, M.S., Director of Residence Hall Food Services
Myron Boylson, M.D., University Physician

DISABILITY LEAVE**Professors**

David J. Davis, Ph.D.
William H. Groves, Ph.D.

ADJUNCT FACULTY

Herbert J. Alexander, M.S., Assistant Professor, Chemistry. (1973)
Charles J. Miller, M.S., Assistant Professor, Instructional Media. (1973)
Douglas Marsden, Research Associate, Zoology. (1966)
Harold Reents, Ph.D., Assistant Professor, Educational Administration and Supervision. (1974)
Carolyn Rohrer, M.Ed., Instructor, Instructional Media. (1973)
Byron Ruskin, M.D., Associate Professor, Chemistry. (1973)
Ronald Short, M.S. Ed., Instructor, Instructional Media. (1973)
Calvin Stockman, M.S.Ed., Assistant Professor, Instructional Media. (1973)
George Vogel, Ph.D., Associate Professor, Instructional Media. (1973)

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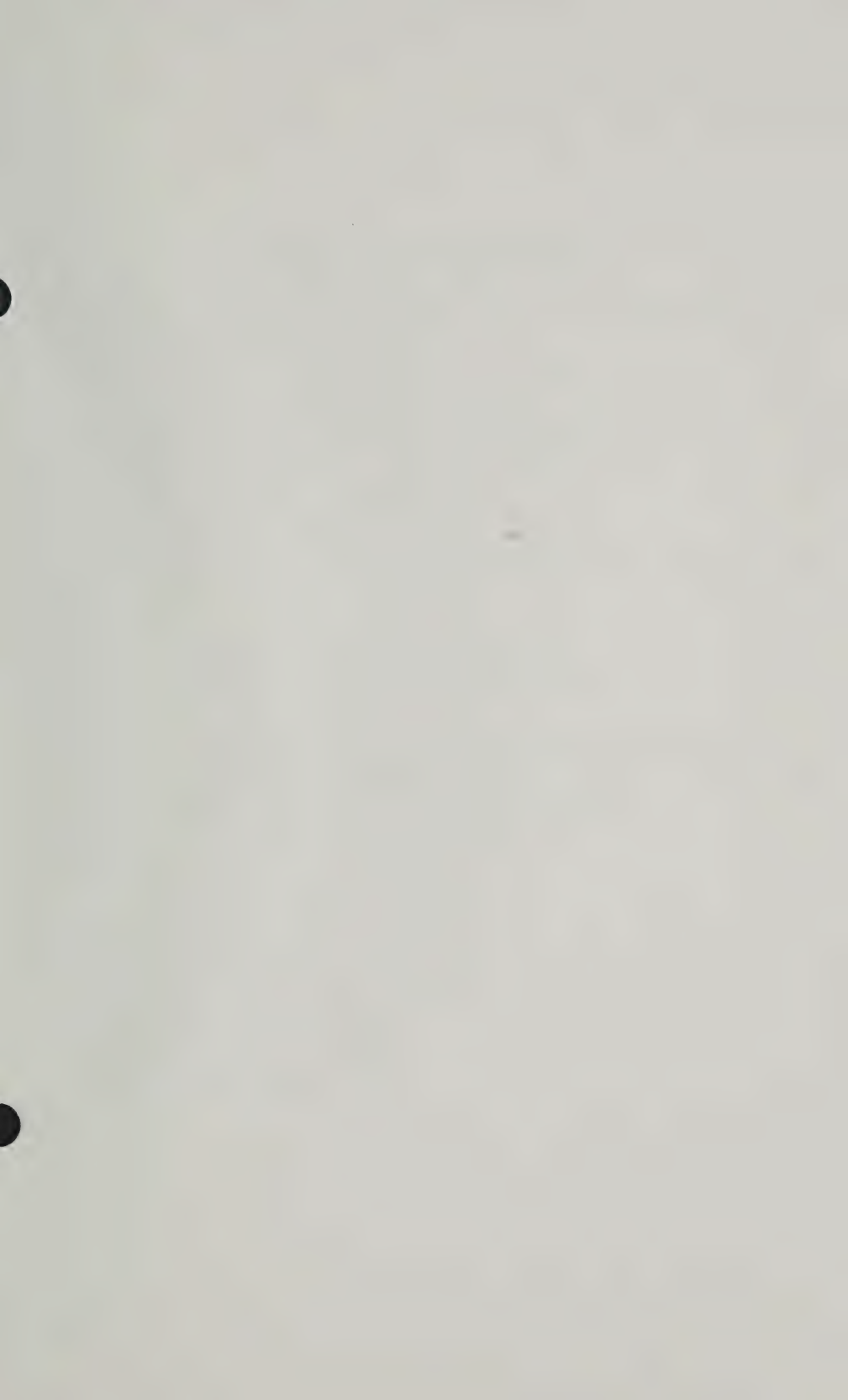
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For information on particular aspects of the University, please address your inquiry to the persons named below.

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Admission of Undergraduate Students — Director of Admissions

Admission of Transfer Students — Director of Admissions

Application for Graduation — Records Office

Extension Service — Director of Extension

Married Student Housing, University Apartments — Assistant Dean, Married Housing

Military Scholarships — Director of Veterans Services

Off-Campus Housing — Director of Off-Campus Housing

Placement — Director of Placement

Readmission of Former Students in Good Standing — Records Office

Reinstatement of Former Students Dismissed for Low Scholarship — Records Office

Residence Hall Accommodations — Dean, Student Housing

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Student Employment — Director of Financial Aids

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This book is intended to provide a comprehensive review of the
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